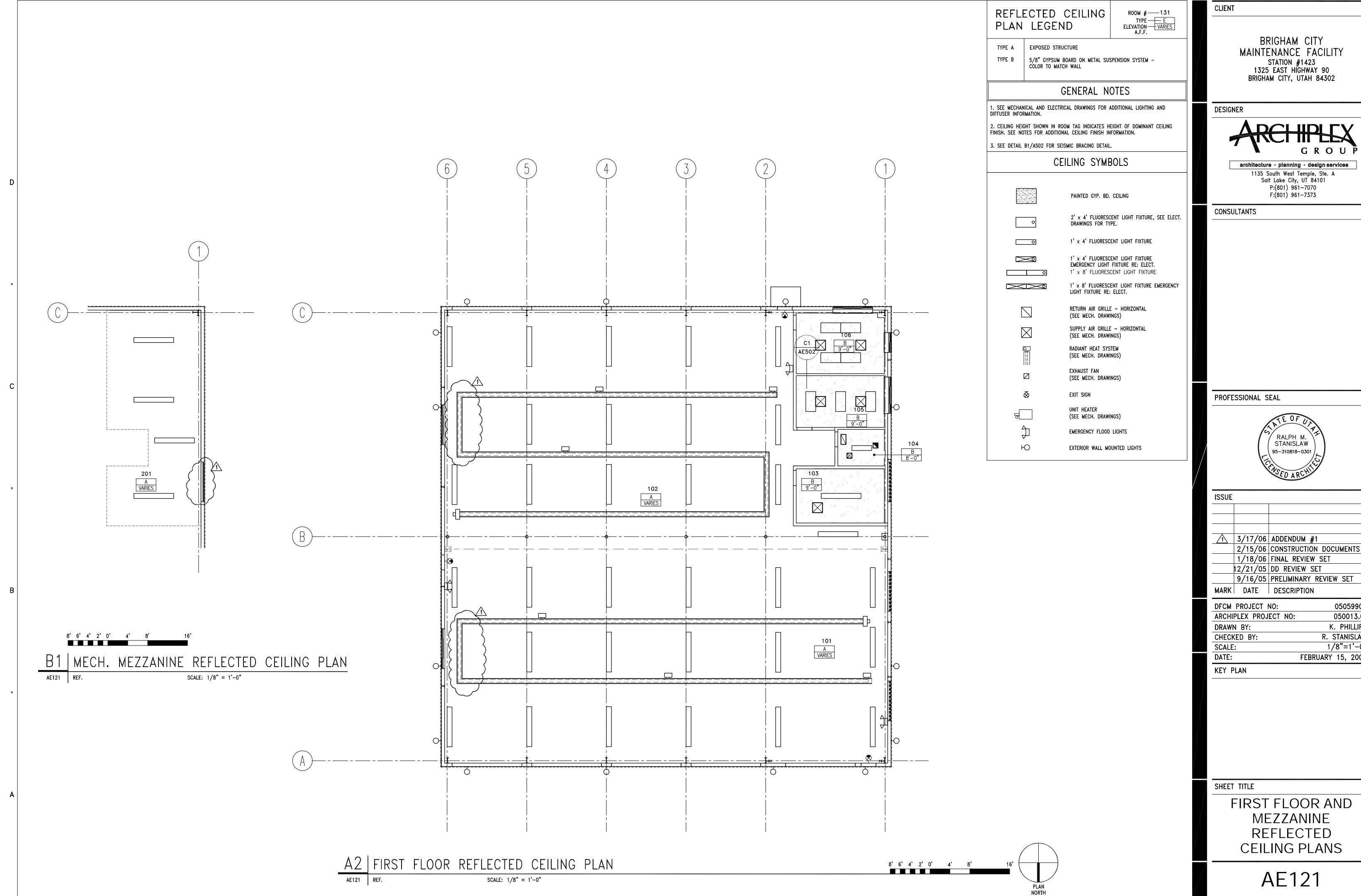
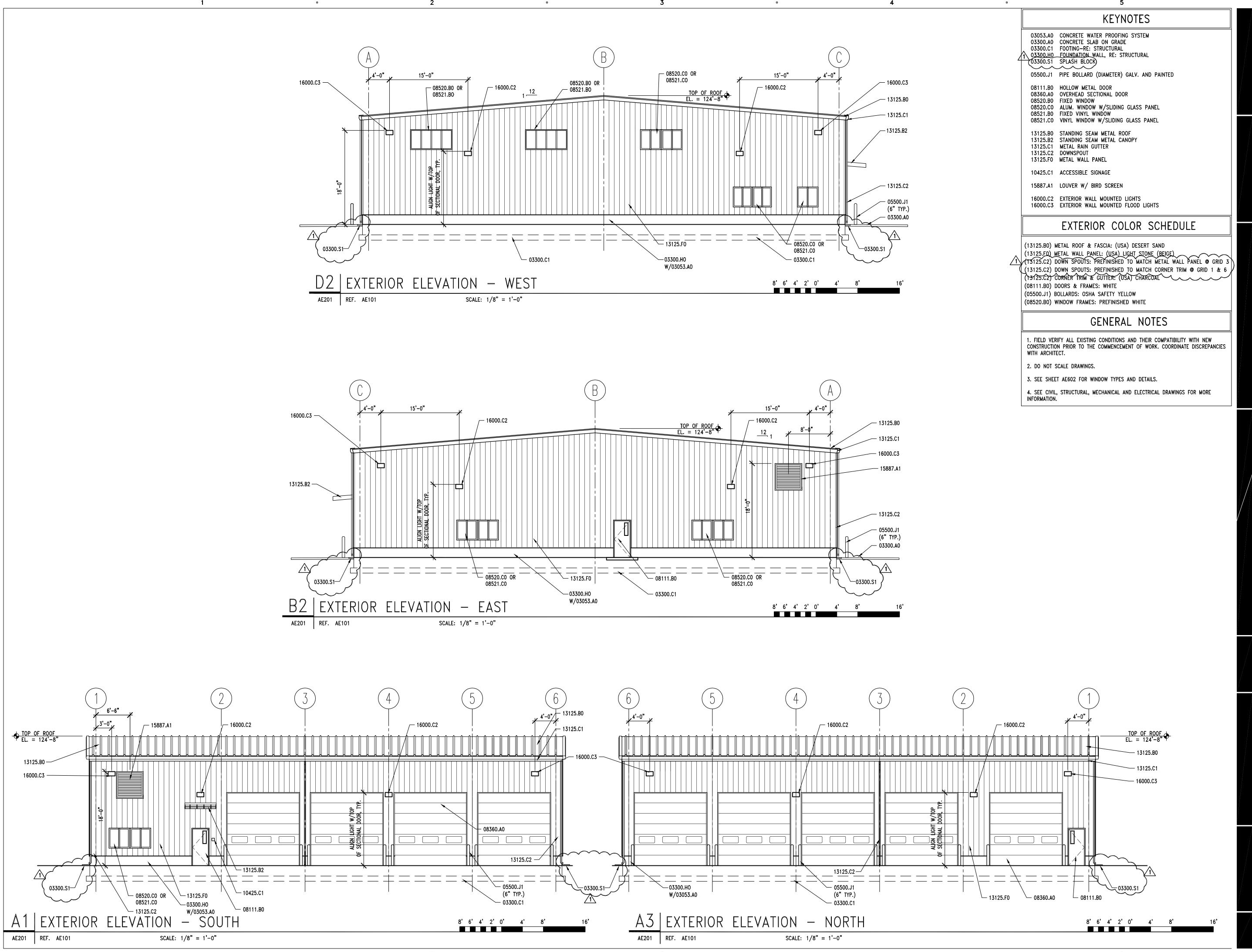


050013.01 K. PHILLIPS R. STANISLAW 1/8"=1'-0" FEBRUARY 15, 2006



| $\bigcirc$ 1 | 3/17/06   | ADDENDUM #1     |           |
|--------------|-----------|-----------------|-----------|
|              | 2/15/06   | CONSTRUCTION D  | OCUMENTS  |
|              | 1/18/06   | FINAL REVIEW SE | ET        |
|              | 12/21/05  | DD REVIEW SET   |           |
|              | 9/16/05   | PRELIMINARY REV | /IEW SET  |
| MARK         | DATE      | DESCRIPTION     |           |
| DFCM         | 05059900  |                 |           |
| ARCHI        | PLEX PROJ | ECT NO:         | 050013.01 |

| DI CIVI I ROSECTI 140. | 03033300          |
|------------------------|-------------------|
| ARCHIPLEX PROJECT NO:  | 050013.01         |
| DRAWN BY:              | K. PHILLIPS       |
| CHECKED BY:            | R. STANISLAW      |
| SCALE:                 | 1/8"=1'-0"        |
| DATE:                  | FEBRUARY 15, 2006 |
| KEY DIANI              |                   |



BRIGHAM CITY MAINTENANCE FACILITY STATION #1423 1325 EAST HÏGHWAY 90 BRIGHAM CITY, UTAH 84302

DESIGNER

CLIENT



architecture • planning • design services 1135 South West Temple, Ste. A Salt Lake City, UT 84101 P:(801) 961-7070 F:(801) 961-7373

CONSULTANTS

PROFESSIONAL SEAL



| ISSUE |          |                        |
|-------|----------|------------------------|
|       |          |                        |
|       |          |                        |
|       |          |                        |
| 1     | 3/17/06  | ADDENDUM #1            |
|       |          | CONSTRUCTION DOCUMENTS |
|       | 1/18/06  | FINAL REVIEW SET       |
|       | 12/21/05 | DD REVIEW SET          |
|       | 9/16/05  | PRELIMINARY REVIEW SET |
| MARK  | DATE     | DESCRIPTION            |

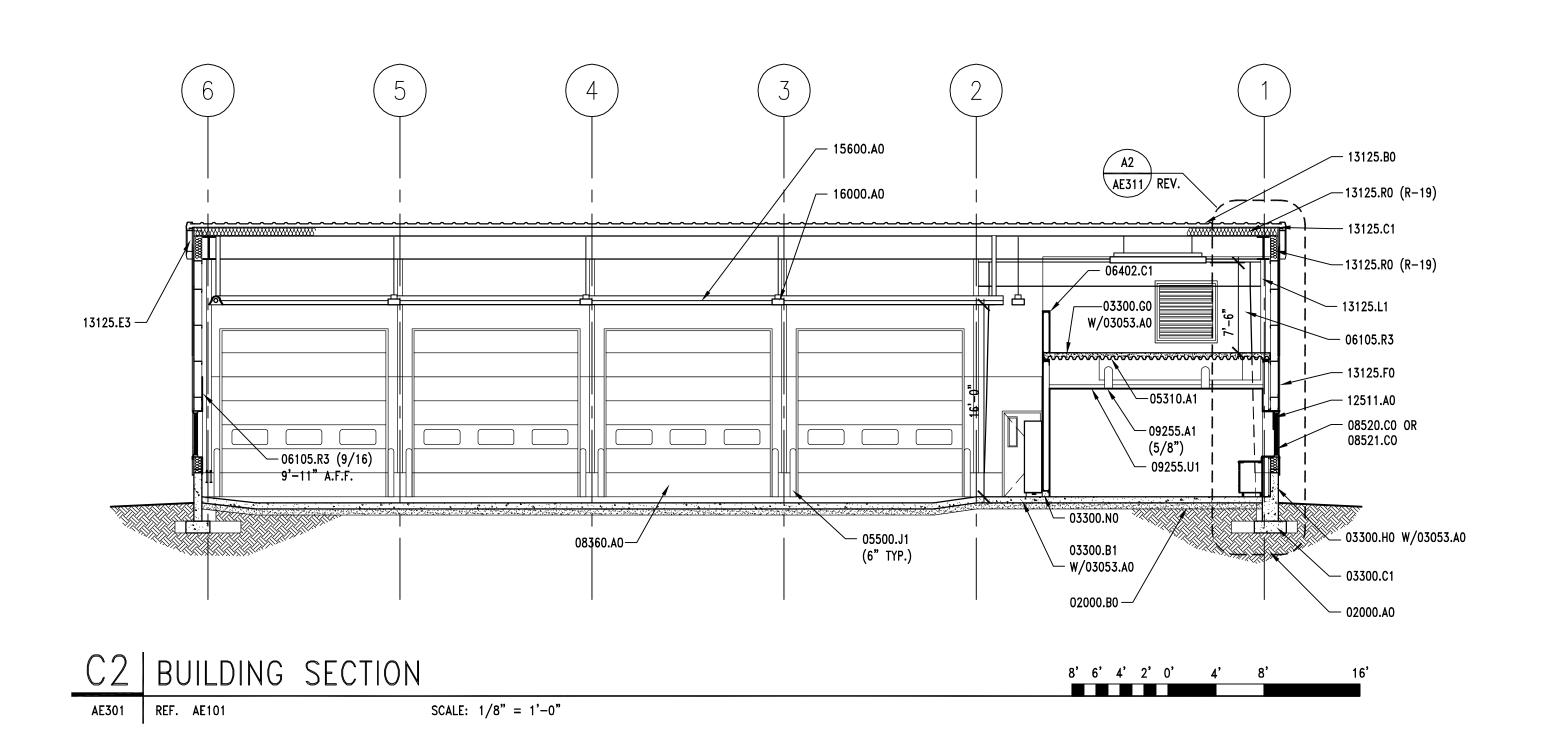
| DFCM PROJECT NO:      | 05059900          |
|-----------------------|-------------------|
| ARCHIPLEX PROJECT NO: | 050013.01         |
| DRAWN BY:             | K. PHILLIPS       |
| CHECKED BY:           | R. STANISLAW      |
| SCALE:                | 1/8"=1'-0"        |
| DATE:                 | FEBRUARY 15, 2006 |
| KEA DI VN             |                   |

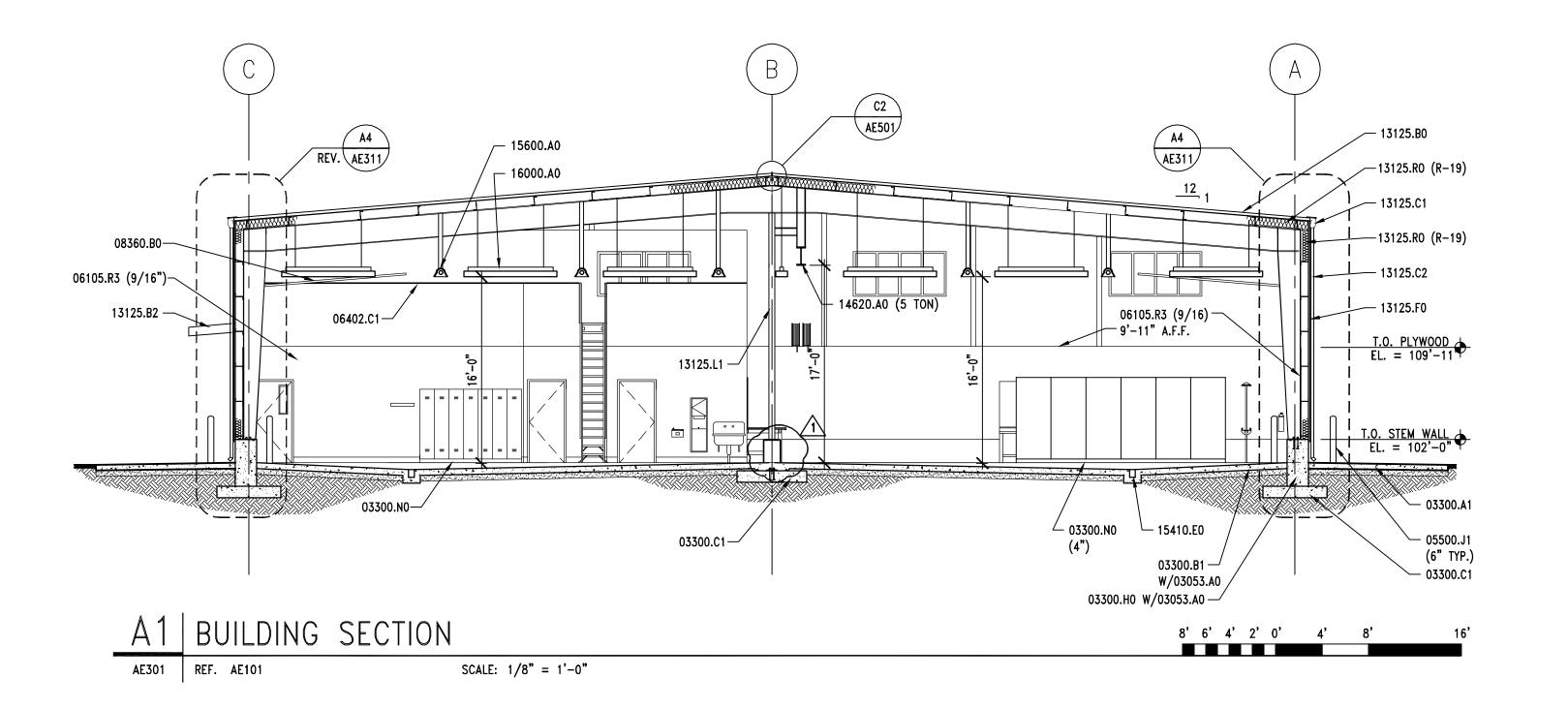
KEY PLAN

SHEET TITLE

EXTERIOR ELEVATIONS

AE201





## KEYNOTES

02000.AO COMPACTED FILL 02000.BO GRAVEL BASE

03053.A0 CONCRETE WATER PROOFING SYSTEM
03300.A1 CONCRETE SLAB-ON-GRADE - RE: STRUCTURAL

03300.B1 CONCRETE SLAB — RE:STRUCTURAL 03300.C1 FOOTING—RE: STRUCTURAL

03300.C1 FOOTING-RE: STRUCTURAL
03300.H0 FOUNDATION WALL, RE: STRUCTURAL
03300.G0 CONCRETE OVER METAL DECK - RE:STRUCTURAL

05310.A1 METAL DECK - RE: STRUCTURAL

03300.NO CONCRETE CURB

05500.J1 PIPE BOLLARD (DIAMETER) GALV. AND PAINTED

06105.R3 G1S A/C PLYWOOD (THICKNESS) 06402.C1 PAINT GRADE WOOD CAP (THICK.)

08360.AO OVERHEAD SECTIONAL DOOR

08360.B0 DOOR TRACK
08520.C0 ALUM. WINDOW W/SLIDING GLASS PANEL
08521.C0 VINYL WINDOW W/SLIDING GLASS PANEL

09255.A1 GYPSUM BOARD (THICKNESS) 09255.U1 SUSPENDED CEILING SYSTEM

12511.AO HORIZONTAL LOUVER BLINDS

13125.BO STANDING SEAM METAL ROOF

13125.B2 STANDING SEAM METAL CANOPY 13125.C1 METAL RAIN GUTTER

13125.C2 DOWNSPOUT

13125.E3 RAKE TRIM 13125.F0 METAL WALL PANEL

13125.L1 STEEL COLUMN - PAINTED 13125.R0 INSULATION & VAPOR BARRIER (R-VALUE)

14620.A0 TROLLEY HOIST (SIZE) - RE: STRUCTURAL

15410.EO TRENCH DRAIN 15600.AO NATURAL GAS RADIANT HEATING SYSTEM

16000.A0 INTERIOR LIGHTS

## GENERAL NOTES

1. FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT.

2. DO NOT SCALE DRAWINGS.

3. SEE SHEET AE602 FOR WINDOW TYPES AND DETAILS.

4. SEE CIVIL, STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MORE INFORMATION.

CLIENT

BRIGHAM CITY
MAINTENANCE FACILITY
STATION #1423
1325 EAST HIGHWAY 90
BRIGHAM CITY, UTAH 84302

DESIGNER

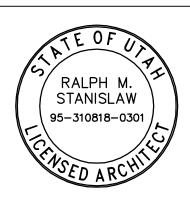


architecture • planning • design services

1135 South West Temple, Ste. A
Salt Lake City, UT 84101
P:(801) 961-7070
F:(801) 961-7373

CONSULTANTS

PROFESSIONAL SEAL



| 13301 |          |                        |
|-------|----------|------------------------|
|       |          |                        |
|       |          |                        |
|       |          |                        |
| 1     | 3/17/06  | ADDENDUM #1            |
|       | 2/15/06  | CONSTRUCTION DOCUMENTS |
|       | 1/18/06  | FINAL REVIEW SET       |
|       | 12/21/05 | DD REVIEW SET          |
|       | 9/16/05  | PRELIMINARY REVIEW SET |
|       |          |                        |

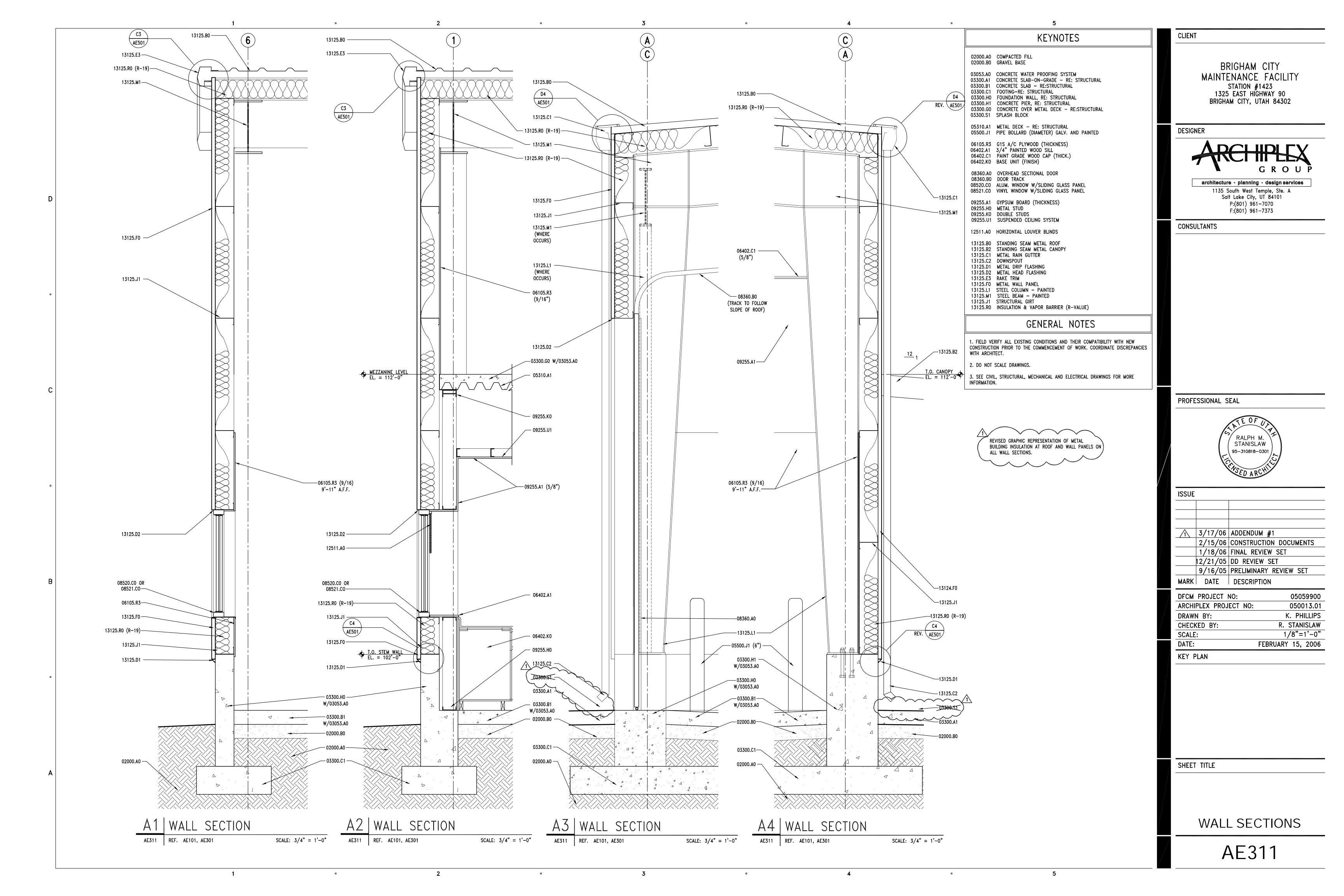
| DFCM PROJECT NO:      | 05059900          |
|-----------------------|-------------------|
| ARCHIPLEX PROJECT NO: | 050013.01         |
| DRAWN BY:             | K. PHILLIPS       |
| CHECKED BY:           | R. STANISLAW      |
| SCALE:                | 1/8"=1'-0"        |
| DATE:                 | FEBRUARY 15, 2006 |
| KEY PLAN              |                   |

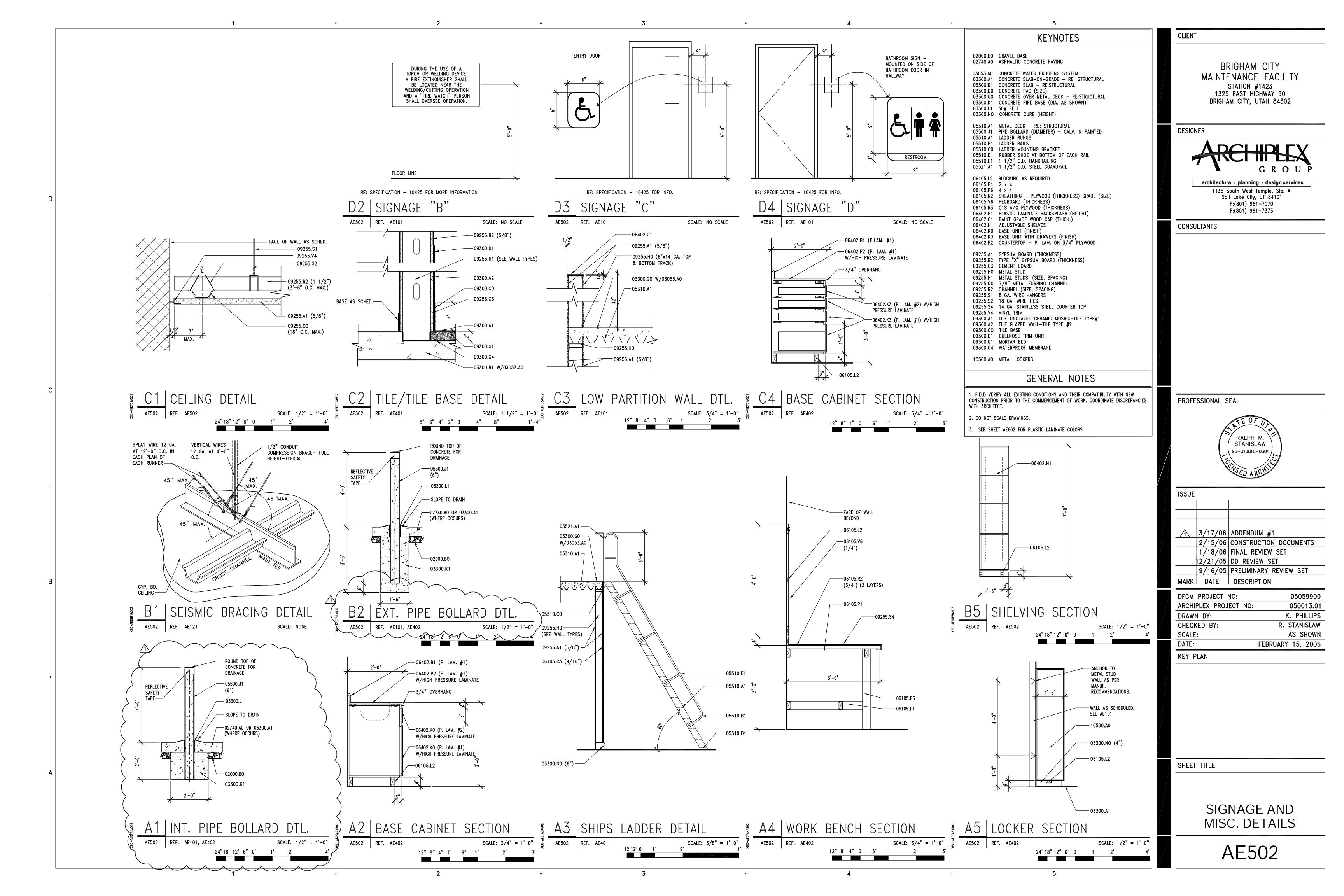
MARK DATE DESCRIPTION

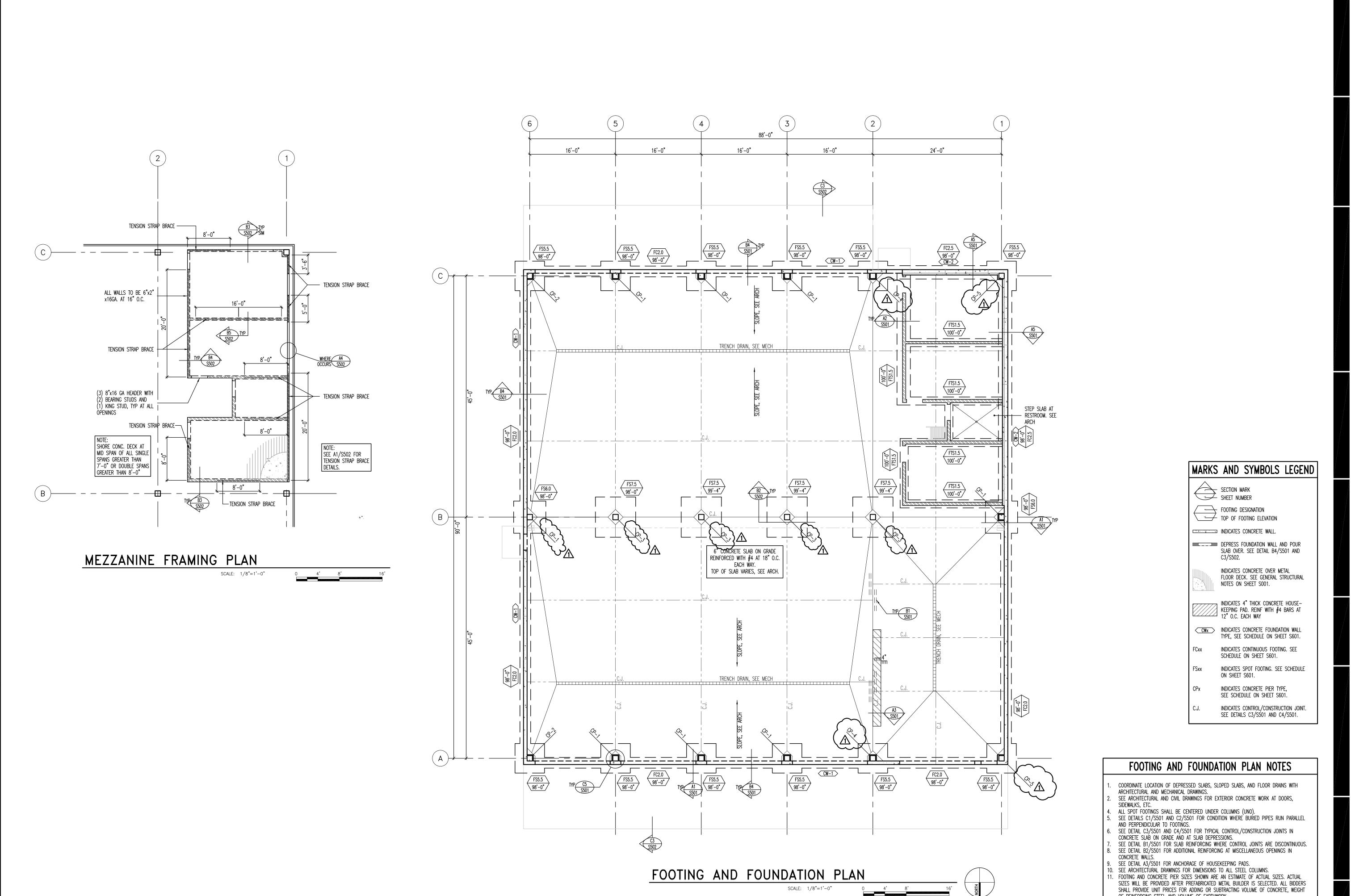
SHEET TITLE

**BUILDING SECTIONS** 

AE301







BRIGHAM CITY MAINTENANCE FACILITY STATION #1423 1325 EAST HIGHWAY 90 BRIGHAM CITY, UTAH 84302

DESIGNER



architecture · planning · design services 1135 South West Temple, Ste. A Salt Lake City, UT 84101 P:(801) 961-7070 F:(801) 961-7373

CONSULTANTS



PROFESSIONAL SEAL

ISSUE 2/15/06 CONSTRUCTION DOCUMENTS 1/18/06 FINAL REVIEW SET 12/21/05 DD REVIEW SET

9/16/05 PRELIMINARY REVIEW SET MARK DATE DESCRIPTION DFCM PROJECT NO:

05059900 BHB PROJECT NO: 05196 C. BROWN DRAWN BY: C. HOFHEINS CHECKED BY: SCALE: AS SHOWN DATE: FEBRUARY 15, 2006

KEY PLAN

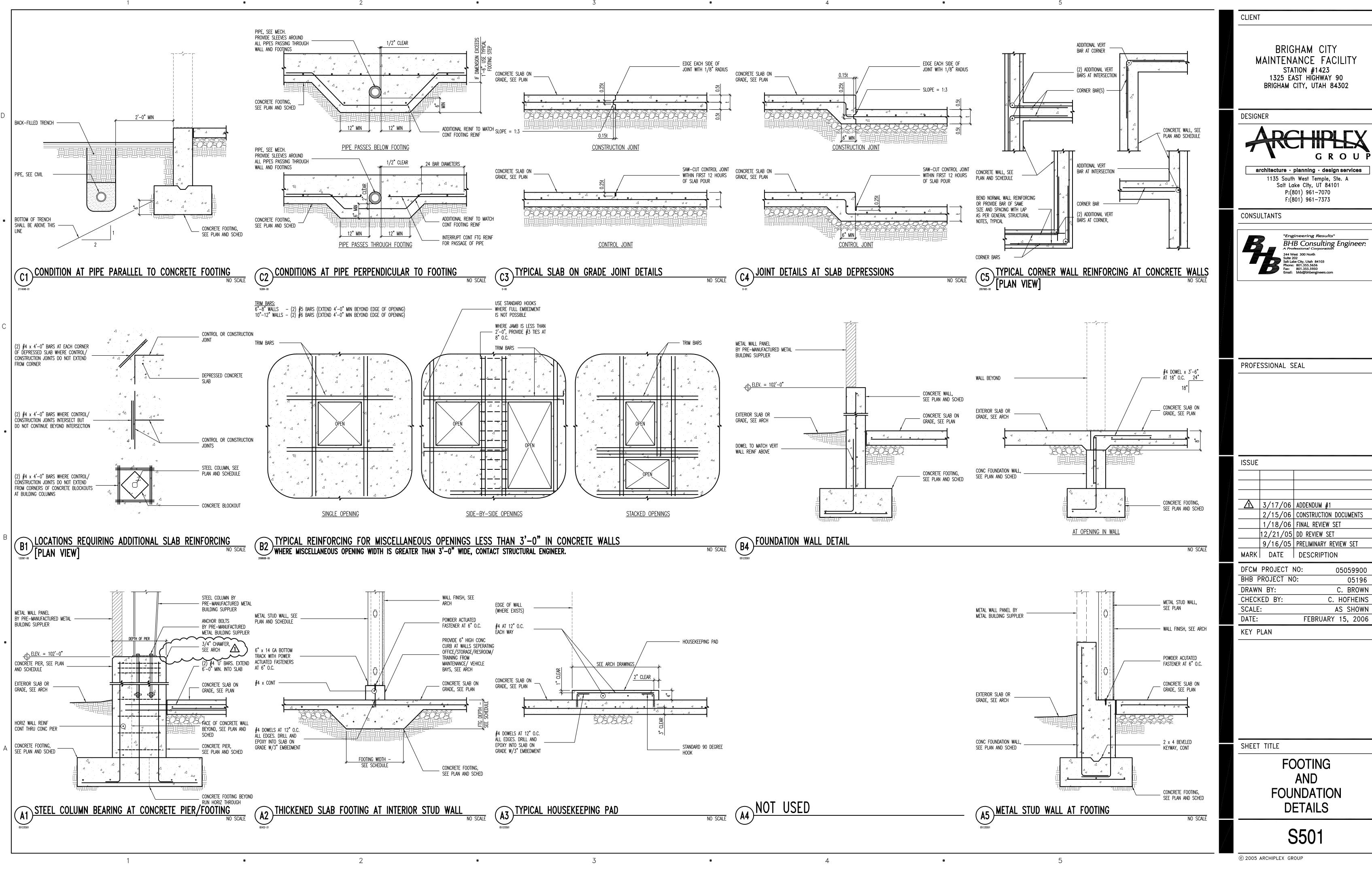
OF REINFORCING STEEL AND VOLUME OF EARTHWORK.

SHEET TITLE

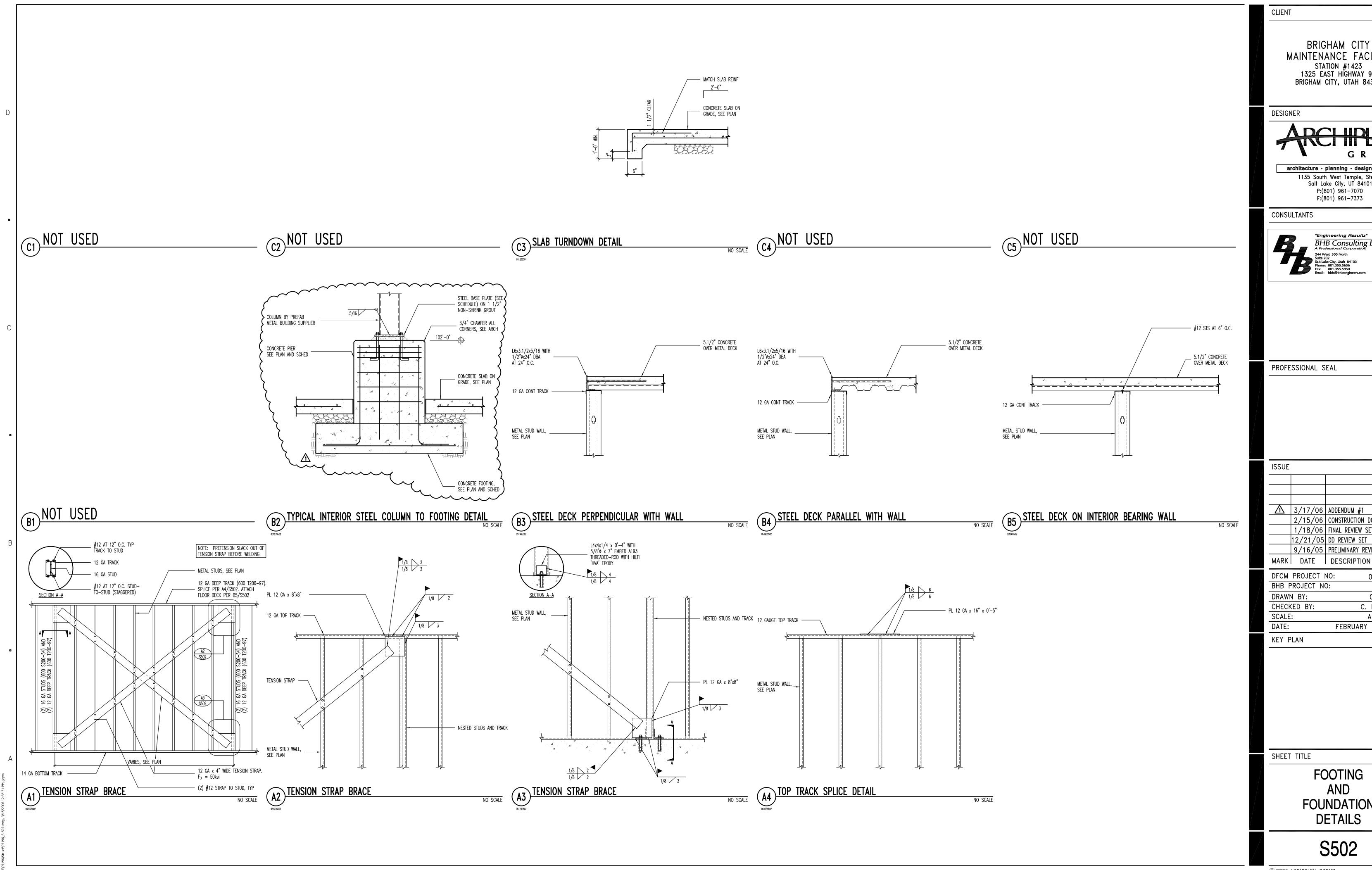
FOOTING AND **FOUNDATION PLAN** 

S101

© 2005 ARCHIPLEX GROUP



C. HOFHEINS



BRIGHAM CITY MAINTENANCE FACILITY STATION #1423 1325 EAST HIGHWAY 90 BRIGHAM CITY, UTAH 84302



architecture • planning • design services 1135 South West Temple, Ste. A
Salt Lake City, UT 84101
P:(801) 961-7070
F:(801) 961-7373



PROFESSIONAL SEAL

| ISSUE       |          |                        |
|-------------|----------|------------------------|
|             |          |                        |
|             |          |                        |
|             |          |                        |
| $\triangle$ | 3/17/06  | ADDENDUM #1            |
|             | 2/15/06  | CONSTRUCTION DOCUMENTS |
|             | 1/18/06  | FINAL REVIEW SET       |
|             | 12/21/05 | DD REVIEW SET          |
|             | 9/16/05  | PRELIMINARY REVIEW SET |
| MADIC       | האדר     | DECODIDATION           |

| DFCM PROJECT NO | : 05059900        |
|-----------------|-------------------|
| BHB PROJECT NO: | 05196             |
| DRAWN BY:       | C. BROWN          |
| CHECKED BY:     | C. HOFHEINS       |
| SCALE:          | AS SHOWN          |
| DATE:           | FEBRUARY 15, 2006 |
| KFY PLAN        |                   |

SHEET TITLE

FOOTING AND **FOUNDATION DETAILS** 

S502

© 2005 ARCHIPLEX GROUP

| CONCRETE FOOTING SCHEDULE |       |        |       |     |            |            |         |     |            |             |         |                |
|---------------------------|-------|--------|-------|-----|------------|------------|---------|-----|------------|-------------|---------|----------------|
| MARK                      | WIDTH | LENGTH | DEPTH |     | REINFOR    | CING CROSS | WISE    | ł   | REINFOR    | CING LENGTH | HWISE   | COMMENTS       |
| MIAINN                    | MIDIT | LENGIN | DEFIN | No. | SIZE       | LENGTH     | SPACING | No. | SIZE       | LENGTH      | SPACING | COMMENTS       |
| FTS1.5                    | 1'-6" | CONT   | 12"   | _   | -          | -          | -       | 2   | #4         | CONT        | EQ      | THICKENED SLAB |
|                           |       |        |       |     |            |            |         |     |            |             |         |                |
| FC2.0                     | 2'-0" | CONT   | 12"   | -   | -          | _          | -       | 3   | #4         | CONT        | EQ      |                |
| FC2.5                     | 2'-6" | CONT   | 12"   | _   | <b>#</b> 5 | 2'-0"      | 14"     | 3   | <b>#</b> 5 | CONT        | EQ      |                |
|                           |       |        |       |     |            |            |         |     |            |             |         |                |
|                           |       |        |       |     |            |            |         |     |            |             |         |                |
| FS2.5                     | 2'-6" | 2'-6"  | 12"   | 3   | <b>#</b> 5 | 2'-0"      | EQ      | 3   | <b>#</b> 5 | 2'-0"       | EQ      |                |
| FS3.0                     | 3'-0" | 3'-0"  | 12"   | 3   | <b>#</b> 5 | 2'-6"      | EQ      | 3   | <b>#</b> 5 | 2'-6"       | EQ      |                |
| FS3.5                     | 3'-6" | 3'-6"  | 12"   | 3   | <b>#</b> 5 | 3'-0"      | EQ      | 3   | <b>#</b> 5 | 3'-0"       | EQ      |                |
| FS4.0                     | 4'-0" | 4'-0"  | 12"   | 4   | <b>#</b> 5 | 3'-6"      | EQ      | 4   | <b>#</b> 5 | 3'-6"       | EQ      |                |
| FS4.5                     | 4'-6" | 4'-6"  | 12"   | 4   | <b>#</b> 5 | 4'-0"      | EQ      | 4   | <b>#</b> 5 | 4'-0"       | EQ      |                |
| FS5.0                     | 5'-0" | 5'-0"  | 12"   | 5   | <b>#</b> 5 | 4'-6"      | EQ      | 5   | <b>#</b> 5 | 4'-6"       | EQ      |                |
| FS5.5                     | 5'-6" | 5'-6"  | 12"   | 5   | <b>#</b> 5 | 5'-0"      | EQ      | 5   | <b>#</b> 5 | 5'-0"       | EQ      |                |
| FS6.0                     | 6'-0" | 6'-0"  | 12"   | 6   | <b>#</b> 5 | 5'-6"      | EQ      | 6   | <b>#</b> 5 | 5'-6"       | EQ      |                |
| FS7.5                     | 7'-6" | 7'-6"  | 14"   | 8   | <b>#</b> 5 | 7'-0"      | EQ      | 8   | <b>#</b> 5 | 7'-0"       | EQ      |                |
| •                         |       |        |       |     |            |            |         |     |            |             |         |                |

CONCRETE FOOTING NOTES:

1. PLACE ALL FOOTING REINFORCING IN THE BOTTOM OF THE FOOTING WITH 3" CLEAR CONCRETE COVER (UNO). TOP REINFORCING, WHERE OCCURS, SHALL BE PLACED IN THE TOP OF THE FOOTING WITH 2" MINIMUM CONCRETE COVER.

IF FOOTINGS ARE EARTH-FORMED, FOOTINGS SHALL BE 6" LONGER AND WIDER THAN SCHEDULED.

4. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS. 5. SOME SCHEDULED FOOTINGS MAY NOT BE USED, SEE FOOTING AND FOUNDATION PLAN FOR FOOTING MARKS.

C1) CONCRETE FOOTING SCHEDULE

|                | CONCRETE PIER SCHEDULE |           |                    |                   |             |          |  |
|----------------|------------------------|-----------|--------------------|-------------------|-------------|----------|--|
|                | MARK                   | PIER SIZE | REINFO<br>VERTICAL | DRCING<br>TIES    | TYPE        | COMMENTS |  |
| $\sim$         | <b>₹</b>               | 16" x 22" | (10) #5_BARS       | (3) #3 AT 8" O.C. | $\triangle$ |          |  |
| $\int \Lambda$ | CP-2                   | 23" x 22" | (12) #5 BARS       | (3) #3 AT 8" O.C. | В           |          |  |
| (              | CP-3                   | 18" x 18" | (12) #5 BARS       | (3) #3 AT 8" O.C. | В           | {        |  |
| <b>\</b>       | CP-4                   | 23" x 30" | (18) #5 BARS       | (3) #3 AT 8" O.C. | A           |          |  |
| \              | CP-5                   | 23" x 36" | (20) #5 BARS       | (3) #3 AT 8" O.C. | В           | 7        |  |
|                |                        |           |                    |                   |             |          |  |

TYPE "B"

CONCRETE PIER NOTES:

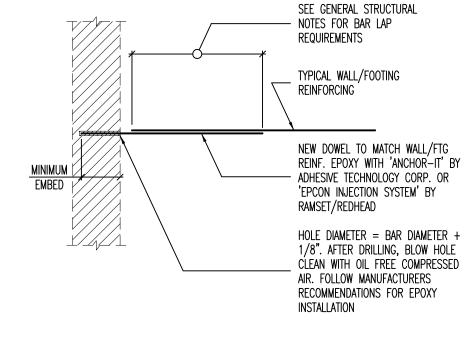
1. INSTALL (3) SETS OF TIES AT 3" O.C. AT TOP OF ALL PIERS (UNO). RUN HORIZONTAL CONCRETE WALL REINFORCING CONTINUOUS THROUGH PIER WHEN PIER IS

POURED MONOLITHICALLY WITH CONCRETE WALL. 3. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

> POUR PIER MONOLITHICALLY WITH FOUNDATION WALL POUR PIER MONOLITHICALLY

WITH FOUNDATION WALL

EPOXY DOWEL EMBED SCHEDULE MINIMUM EMBEDMENT INTO EXISTING CONCRETE



EPOXY DOWEL EMBED SCHEDULE

CONSULTANTS

DESIGNER



BRIGHAM CITY

MAINTENANCE FACILITY

STATION #1423 1325 EAST HIGHWAY 90

BRIGHAM CITY, UTAH 84302

architecture · planning · design services

1135 South West Temple, Ste. A Salt Lake City, UT 84101 P:(801) 961-7070 F:(801) 961-7373

PROFESSIONAL SEAL

| ISSUE       |          |                        |
|-------------|----------|------------------------|
|             |          |                        |
|             |          |                        |
|             |          |                        |
| $\triangle$ | 3/17/06  | ADDENDUM #1            |
|             | 2/15/06  | CONSTRUCTION DOCUMENTS |
|             | 1/18/06  | FINAL REVIEW SET       |
|             | 12/21/05 | DD REVIEW SET          |
|             | 9/16/05  | PRELIMINARY REVIEW SET |
| MARK        | DATE     | DESCRIPTION            |

| DFCM PROJECT NO | : 05059900        |
|-----------------|-------------------|
| BHB PROJECT NO: | 05196             |
| DRAWN BY:       | C. BROWN          |
| CHECKED BY:     | C. HOFHEINS       |
| SCALE:          | AS SHOWN          |
| DATE:           | FEBRUARY 15, 2006 |

SHEET TITLE

KEY PLAN

STRUCTURAL SCHEDULES

S601

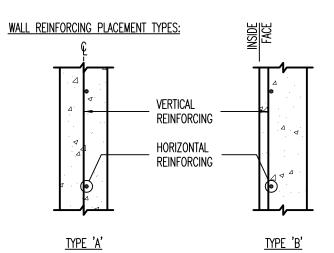
© 2005 ARCHIPLEX GROUP

|       |           | C                   | ONCRETE WALL S      | SCHEDULE       |           |                     |
|-------|-----------|---------------------|---------------------|----------------|-----------|---------------------|
| MADIZ | THICKNEC  | WALL TYPE           | COMMENTS            |                |           |                     |
| MARK  | THICKNESS | VERTICAL            | HORIZONTAL          | TOP AND BOTTOM | WALL TYPE | COMMENTS            |
| CW-1  | 8"        | #4 AT 18" O.C.      | #4 AT 12" O.C.      | (1) #4         | A         |                     |
| CW-2  | 8"        | #4 AT 18" O.C.      | #4 AT 12" O.C.      | (1) #4         | A         | ABV. ELEV. 100'-0"  |
|       | 16"       | #4 AT 18" O.C. E.F. | #4 AT 12" O.C. E.F. | (2) #4         | С         | BELOW ELEV. 100'-0" |

CONCRETE FOUNDATION WALL NOTES: SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS. CONCRETE FOUNDATION WALLS NOT DESIGNATED ON PLANS SHALL BE REINFORCED AS FOLLOWS:

HORIZONTAL REINFORCING #4 BARS AT 16" O.C. #4 BARS AT 12" O.C. #5 BARS AT 15" O.C.

#4 BARS AT 16" O.C. E.F.

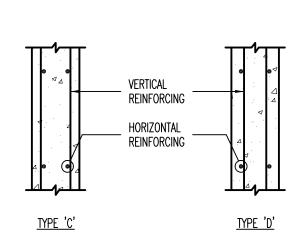


VERTICAL REINFORCING #4 BARS AT 18" O.C.

#4 BARS AT 18" O.C.

#4 BARS AT 16" O.C.

#4 BARS AT 18" O.C. E.F.



<u>ABBREVIATIONS:</u> E.F. EACH FACE

I.F. INSIDE FACE O.F. OUTSIDE FACE

CONCRETE REINFORCING BAR LAP SPLICE SCHEDULE REGULAR REGULAR TOP REGULAR TOP REGULAR CLASS CLASS CLASS CLASS CLASS CLASS CLASS CLASS

CONCRETE REINFORCING BAR LAP SPLICE NOTES:

1. THIS SCHEDULE SHALL BE USED FOR ALL BAR SPLICES IN CONCRETE WALLS, UNLESS NOTED OTHERWISE. CLASS 'A' SPLICES MAY BE USED ONLY IN CASES WHERE 50% OR LESS OF THE BARS ARE SPLICED WITHIN THE LAP SPLICE LENGTH.

TIES AND STIRRUPS SHALL NOT BE SPLICED.

a. FOR BUNDLED BARS OF THREE OR LESS, LAP SPLICE LENGTHS SHALL BE MULTIPLIED BY 1.2.

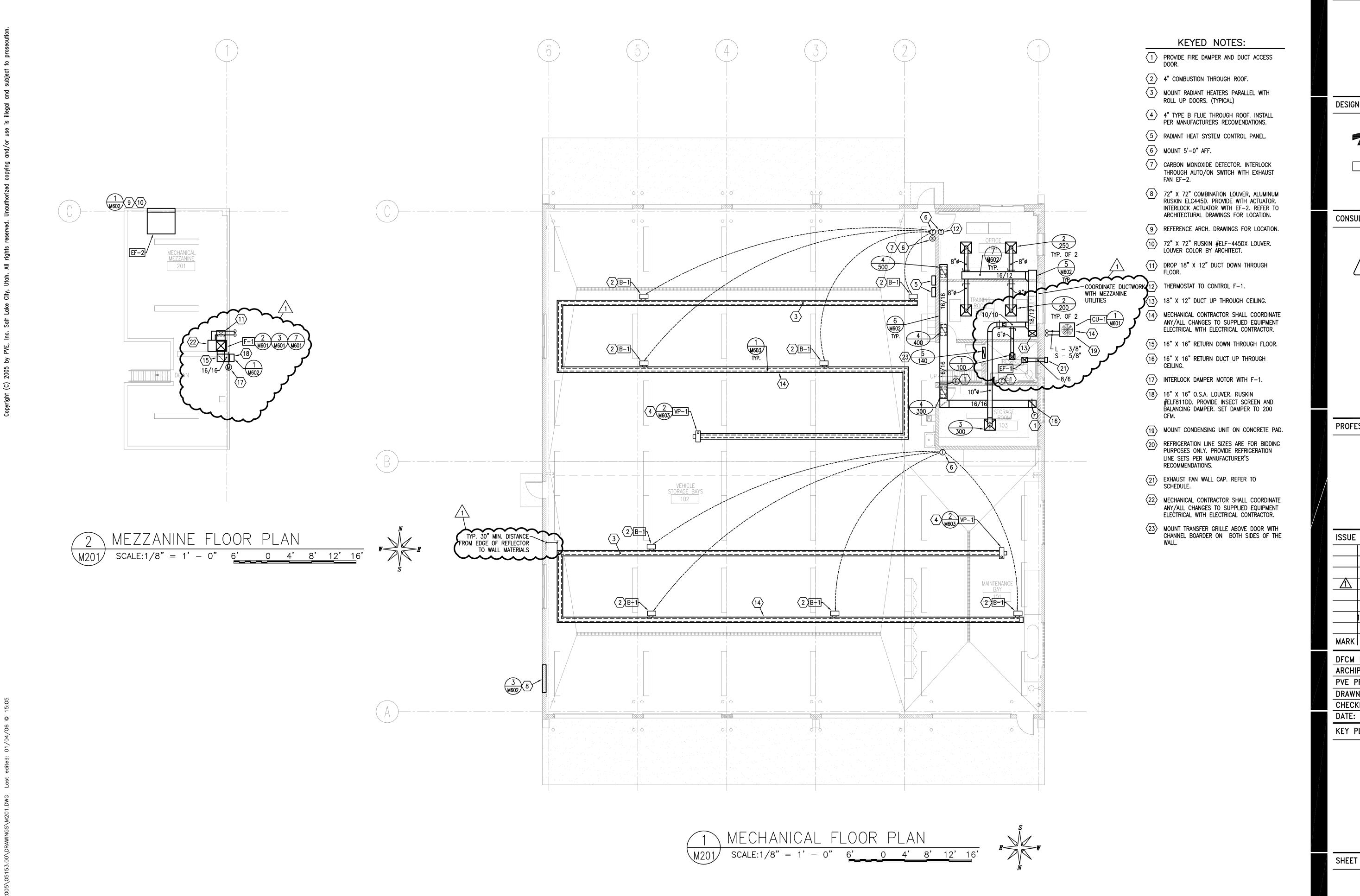
FOR ALL EPOXY COATED BARS, LAP LENGTHS SHALL BE MULTIPLIED BY 1.3 FOR TOP BARS AND 1.5 FOR REGULAR BARS. TOP BARS ARE CLASSIFIED AS HORIZONTAL BARS WHERE 12", OR MORE, OF FRESH CONCRETE IS CAST BELOW THE REINFORCING BAR.

CONCRETE REINFORCING BAR LAP SPLICE SCHEDULE 9. SEE GENERAL STRUCTURAL NOTES FOR ADDITIONAL REQUIREMENTS.

5. SPLICES FOR BUNDLED BARS: INDIVIDUAL BAR SPLICES WITHIN A BUNDLE SHALL NOT OVERLAP.

FOR BUNDLED BARS OF FOUR OR MORE, LAP SPLICE LENGTHS SHALL BE MULTIPLIED BY 1.33. d. ENTIRE BUNDLES SHALL NOT BE LAP SPLICED. FOR ALL LIGHTWEIGHT CONCRETE, LAP LENGTHS SHALL BE MULTIPLIED BY 1.3.

CLASS 'B' SPLICES SHALL BE USED FOR ALL SPLICES UNLESS THE REQUIREMENTS OF NOTE No. 2 ABOVE ARE MET.



BRIGHAM CITY MAINTENANCE FACILITY STATION #1423 1325 EAST HIGHWAY 90 BRIGHAM CITY, UTAH 84302

DESIGNER



architecture • planning • design services 1135 South West Temple, Ste. A Salt Lake City, UT 84101 P:(801) 961-7070 F:(801) 961-7373

CONSULTANTS



90 South 400 West, Suite 340 Salt Lake City UT, 84101 Phone: (801) 359-3158 Fax: (801) 521-4114

PROFESSIONAL SEAL



NOT VALID UNLESS SIGNED

1 3/17/06 ADDENDEM #1 2/15/06 CONSTRUCTION DOCUMENTS

1/18/06 FINAL REVIEW SET 12/21/05 DD REVIEW SET 9/16/05 PRELIMINARY REVIEW SET

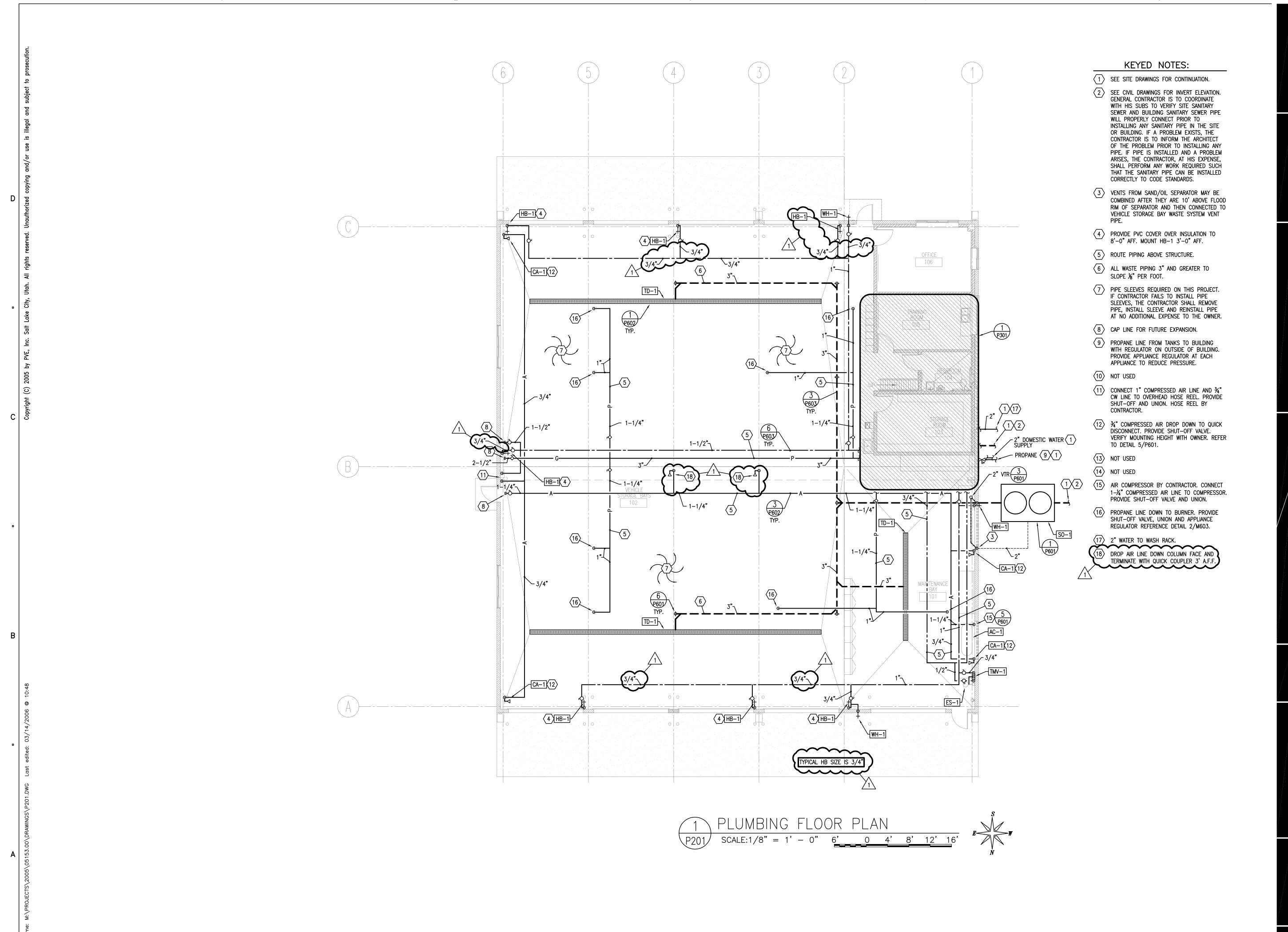
MARK DATE DESCRIPTION

DFCM PROJECT NO: 05059900 ARCHIPLEX PROJECT NO: 050013.01 PVE PROJECT NO: 05153.00 DRAWN BY: M.M. A.D.S. CHECKED BY: FEBRUARY 15, 2006 DATE: KEY PLAN

SHEET TITLE

MECHANICAL FLOOR PLAN

M201



BRIGHAM CITY
MAINTENANCE FACILITY
STATION #1423
1325 EAST HIGHWAY 90
BRIGHAM CITY, UTAH 84302

DESIGNER



1135 South West Temple, Ste. A
Salt Lake City, UT 84101

P:(801) 961-7070 F:(801) 961-7373

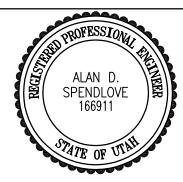
CONSULTANTS



90 South 400 West, Suite 340 Salt Lake City UT, 84101 Phone: (801) 359-3158 Fax: (801) 521-4114

PROFESSIONAL SEAL

ISSUE



NOT VALID UNLESS SIGNED

3/17/06 ADDENDEM #1
2/15/06 CONSTRUCTION DOCUMENTS
1/18/06 FINAL REVIEW SET

12/21/05 DD REVIEW SET
9/16/05 PRELIMINARY REVIEW SET

MARK DATE DESCRIPTION

DFCM PROJECT NO: 05059900

ARCHIPLEX PROJECT NO: 050013.01

PVE PROJECT NO: 05153.00

DRAWN BY: M.M.

CHECKED BY: A.D.S.

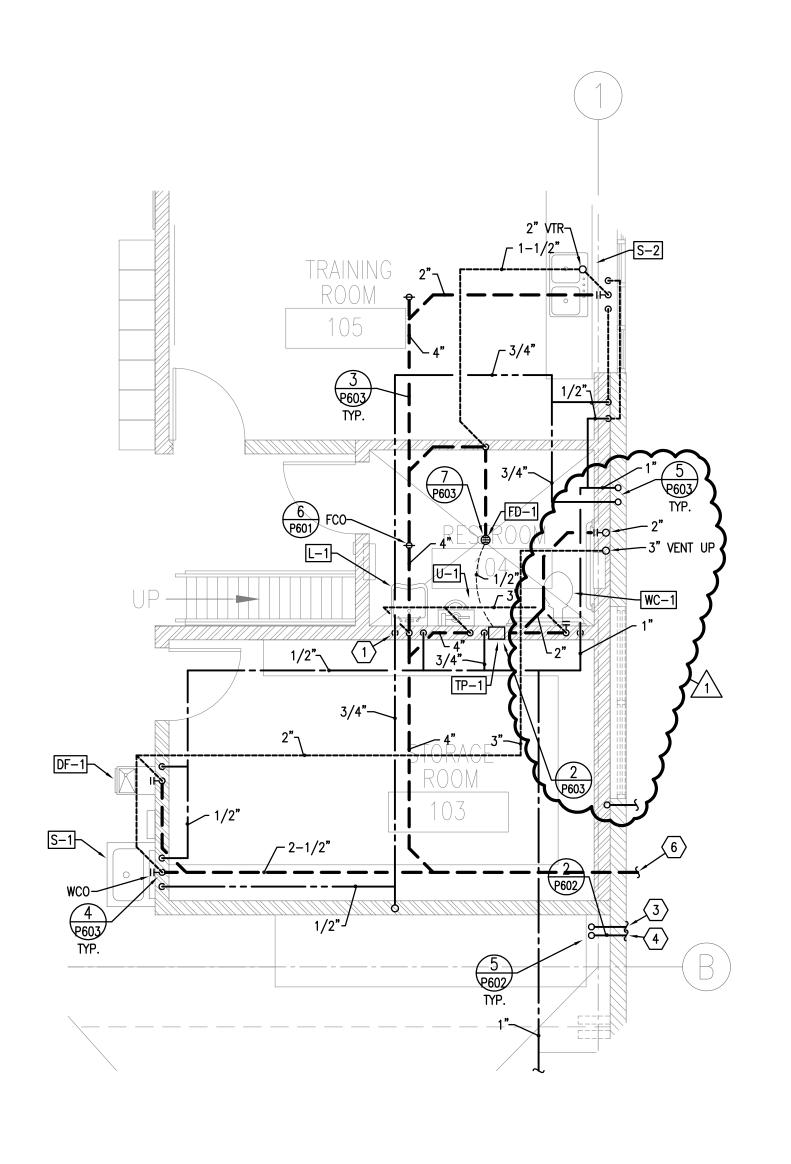
DATE: FEBRUARY 15, 2006

KEY PLAN

SHEET TITLE

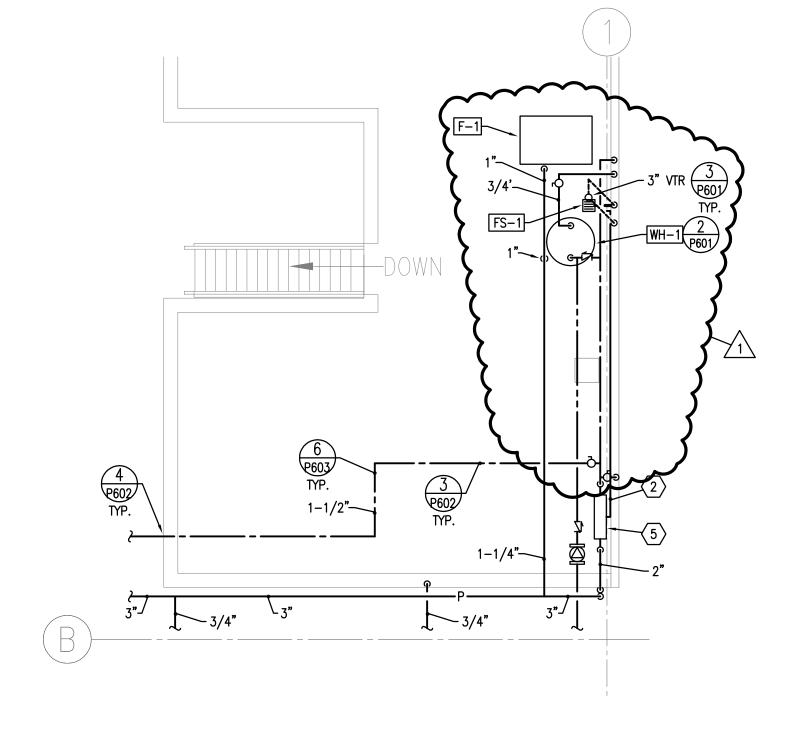
PLUMBING FLOOR PLAN

P201



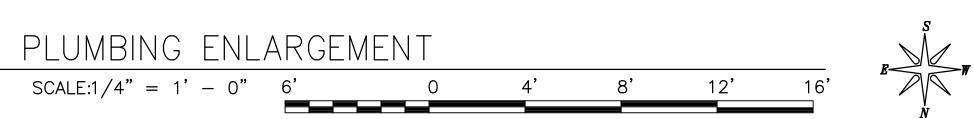
## KEYED NOTES:

- 1) 1/2" HOT WATER DOWN TO L-1
- $\langle 2 \rangle$  3/4" DRAIN LINE. AIR GAP TO FS-1
- 3 2" WATER LINE.
- 4 3" PROPANE LINE.
- 5 WATTS 1-1/2" 009 SERIES REDUCED PRESSURE BACKFLOW PREVENTOR.
- 6 SEE CIVIL DRAWINGS FOR CONTINUATION.



2 MEZZANINE PLUMBING PLAN

SCALE:1/4" = 1' - 0" 6' 0 4' 8' 12' 16'



3

CLIENT

BRIGHAM CITY
MAINTENANCE FACILITY
STATION #1423
1325 EAST HIGHWAY 90
BRIGHAM CITY, UTAH 84302

DESIGNER



architecture • planning • design services

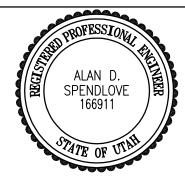
1135 South West Temple, Ste. A
Salt Lake City, UT 84101
P:(801) 961-7070
F:(801) 961-7373

CONSULTANTS



90 South 400 West, Suite 340 Salt Lake City UT, 84101 Phone: (801) 359-3158 Fax: (801) 521-4114

PROFESSIONAL SEAL



NOT VALID UNLESS SIGNED

|       | 1101    | 171212 3112233 3131 | 125       |
|-------|---------|---------------------|-----------|
| ISSUE |         |                     |           |
|       |         |                     |           |
|       |         |                     |           |
|       |         |                     |           |
|       | 3/17/06 | ADDENDEM #1         |           |
|       | 2/15/06 | CONSTRUCTION        | DOCUMENTS |
|       |         |                     |           |

1/18/06 FINAL REVIEW SET
12/21/05 DD REVIEW SET
9/16/05 PRELIMINARY REVIEW SET

MARK DATE DESCRIPTION

| DFCM PROJECT NO:      | 05059900          |
|-----------------------|-------------------|
| ARCHIPLEX PROJECT NO: | 050013.01         |
| PVE PROJECT NO:       | 05153.00          |
| DRAWN BY:             | M.M.              |
| CHECKED BY:           | A.D.S.            |
| DATE:                 | FEBRUARY 15, 2006 |
| KEY PLAN              |                   |

SHEET TITLE

PLUMBING ENLARGEMENTS

P301

# ELECTRICAL SPECIFICATIONS

SECTION 16000 - GENERAL PROVISIONS WORK CONSISTS OF FURNISHING LABOR, MATERIALS, EQUIPMENT AND SERVICES REQUIRED FOR THE COMPLETE INSTALLATION OF ELECTRICAL WORK SHOWN IN THE CONTRACT DOCUMENTS AND SPECIFIED IN DIVISION 16.

INCLUDE ALL PARTS AND LABOR, WHICH ARE INCIDENTAL AND NECESSARY FOR A COMPLETE AND OPERABLE INSTALLATION EVEN THOUGH NOT SPECIFICALLY MENTIONED IN THE CONTRACT DOCUMENTS. SUCH ITEMS INCLUDE NUTS, BOLTS, ANCHORS, BRACKETS, SLEEVES,

OBTAIN ALL TEMPORARY AND PERMANENT PERMITS AND LICENSES REQUIRED IN CONNECTION WITH THIS DIVISIONS WORK, PAY ALL FEES AND EXPENSES REQUIRED FOR SUCH PERMITS AND LICENSES. REQUEST INSPECTIONS AS REQUIRED BY REGULATING AGENCIES AND/OR REGULATIONS. PAY ALL CHARGES FOR INSPECTIONS BY REGULATING

AGENCIES OF INSTALLATIONS OF PLANS AND SPECIFICATIONS. INCLUDE STATE AND LOCAL SALES TAXES IN THE BID. KEEP ACCURATE RECORDS OF THESE TAXES AND FURNISH SUCH RECORDS TO THE

MEET OR EXCEED ALL CURRENT APPLICABLE CODES, ORDINANCES AND REGULATIONS FOR ALL INSTALLATIONS. PROMPTLY NOTIFY THE ENGINEER, IN WRITING, IF THE CONTRACT DOCUMENTS APPEAR TO CONFLICT WITH GOVERNING CODES AND REGULATIONS. CONTRACTOR ASSUMES ALL RESPONSIBILITY AND COSTS FOR CORRECTING NON-COMPLYING WORK INSTALLED WITHOUT NOTIFYING THE ENGINEER.

HIGHER QUALITY OF WORKMANSHIP AND MATERIALS INDICATED IN THE

CONTRACT DOCUMENTS TAKES PRECEDENCE OVER THAT ALLOWED IN REFERENCED CODES AND STANDARDS.

THE TERMS DEFINED BELOW APPLY TO ALL WORK INCLUDED IN a. THE WORK - AS DEFINED IN THE 1997 AIA DOCUMENT A201:
"THE TERM "WORK" MEANS THE CONSTRUCTION AND SERVICES
REQUIRED BY THE CONTRACT DOCUMENTS WHETHER COMPLETED OR PARTIALLY COMPLETED, AND INCLUDES ALL OTHER LABOR MATERIALS, EQUIPMENT AND SERVICES PROVIDED OR TO BE PROVIDED BY THE CONTRACTOR TO RULFILL THE CONTRACTORS

OBLIGATIONS. THE WORK MAY CONSTITUTE THE WHOLE OR A PART OF THE PROJECT". b. Furnish - to obtain in New Condition Ready For Installation into the Work.

c. INSTALL - TO STORE, SET IN PLACE, CONNECT AND PLACE INTO OPERATION INTO THE WORK.

d. PROVIDE - TO FURNISH AND INSTALL e. CONNECT - TO BRING SERVICE TO THE EQUIPMENT AND MAKE FINAL ATTACHMENT INCLUDING NECESSARY SWITCHES, OUTLETS, BOXES, TERMINATIONS, ETC.

CONDUIT - INCLUDES IN ADDITION TO CONDUIT, ALL FITTINGS. PULL BOXES, HANGERS AND OTHER SUPPORTS AND ACCESSORIES RELATED TO SUCH CONDUIT. n. CONCEALED - HIDDEN FROM SIGHT IN CHASES, FURRED SPACES,

SHAFTS, HUNG CEILINGS, EMBEDDED IN CONSTRUCTION, IN CRAILL SPACES OR BURIED. EXPOSED - NOT INSTALLED UNDERGROUND NOR CONCEALED AS

THE DRAWINGS AND SPECIFICATIONS CONSTITUTE THE CONTRACT DOCUMENTS. ANY ITEM NOTED IN THE SPECIFICATION OR SHOWN ON THE DRAWINGS IS INCLUDED IN THE CONTRACT DOCUMENTS.

ALL ELECTRICAL DETAILS AND DRAWINGS ARE DIAGRAMMATIC, UNLESS SPECIFICALLY NOTED. FIELD VERIFY ALL DIMENSIONS AND NOTIFY THE ENGINEER OF ANY CONFLICTS OR DISCREPANCIES, IN WRITING, PRIOR TO INITIATE, MAINTAIN AND SUPERVISE ALL SAFETY PRECAUTIONS

REQUIRED WITH THIS WORK IN ACCORDANCE WITH THE REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) AND OTHER GOVERNING AGENCIES. DO NOT REMOVE OR DISTURB ANY ASBESTOS CONTAINING MATERIALS FROM THE PROJECT. IMMEDIATELY STOP WORK AND NOTIFY THE TENANT

IF ASBESTOS CONTAINING MATERIALS ARE SUSPECTED. BEFORE SUBMITTING A PROPOSAL ON THE WORK CONTEMPLATED, EXAMINE THE SITE OF THE PROPOSED WORK AND BECOME THOROUGHLY FAMILIAR WITH EXISTING CONDITIONS AND LIMITATIONS. NO EXTRA COMPENSATION WILL BE ALLOWED BECAUSE OF MISUNDERSTANDING AS TO THE AMOUNT OF WORK INVOLVED NOR BIDDERS LACK OF

CONDUITS, PIPES, DUCTS, LIGHTS, DEVICES, SPEAKERS, ETC., SHOWN ON THE DRAWINGS AS EXISTING HAVE BEEN BASED ON THE EXISTING PLANS AND MAY NOT BE INSTALLED AS ORIGINALLY SHOWN. IT IS THE CONTRACTORS RESPONSIBILITY TO VISIT THE SITE AND MAKE EXACT DETERMINATION OF THE EXISTANCE, LOCATION AND CONDITION OF SUCH

DISCOVERED OR REASONABLY ANTICIPATED PRIOR TO BIDDING.

CONSULT THE DRAWINGS AND SPECIFICATIONS OF MECHANICAL AND OTHER TRADES FOR CORRELATING INFORMATION AND LAY OUT WORK SO THAT IT WILL COORDINATE WITH OTHER TRADES. VERIFY DIMENSIONS AND CONDITIONS (I.E., FINISHED CEILING HEIGHTS, FOOTING AND FOUNDATION ELEVATIONS, BEAM DEPTHS, ETC). WITH THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. NOTIFY THE ARCHITECT/ENGINEER OF ANY CONFLICTS THAT CANNOT BE RESOLVED, IN THE FIELD, BY AFFECTED TRADES. REPLACEMENT OF WORK DUE TO LACK OF COORDINATION AND FAILURE TO VERIFY EXISTING CONDITIONS WILL BE COMPLETED AT NO COST TO THE OWNER.

INSTALL ALL CONDUIT, CABLE TRAY, BUSDUCT, EQUIPMENT, ETC.
ALLOWING PROPER CODE AND MAINTENANCE CLEARANCES AND TO
AVOID BLOCKING PASSAGEWAYS AND ACCESS PANELS.

WHERE WORK MUST BE REPLACED DUE TO FAILURE OF THE CONTRACTOR TO VERIFY THE CONDITIONS EXISTING ON THE JOB, SUCH REPLACEMENT MUST BE ACCOMPLISHED AT NO COST TO THE OWNER. THIS APPLIES TO SHOP FABRICATED WORK AS WELL AS TO WORK FABRICATED INPLACE.

THROUGHOUT THE COURSE OF THE WORK, MINOR CHANGES AND ADJUSTMENTS TO THE INSTALLATION MAY BE REQUESTED BY THE ENGINEER. THE CONTRACTOR SHALL MAKE ADJUSTMENTS WITHOUT ADDITIONAL COST TO THE OWNER, WHERE SUCH ADJUSTMENTS ARE NECESSARY TO THE PROPER INSTALLATION AND OPERATION WITHIN THE INTENT OF THE CONTRACT DOCUMENTS. THIS DOES NOT INCLUDE WORK

OBTAIN EXACT LOCATION OF CONNECTION TO EQUIPMENT, FURNISHED BY OTHERS, FROM THE PERSON FURNISHING THE EQUIPMENT. DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY AND WHAT IS CALLED FOR IN EITHER ONE IS AS BINDING AS IF CALLED FOR IN BOTH INCLUDE THE BETTER QUALITY, GREATER QUANTITY OR HIGHER COST

FOR AN ITEM OR ARRANGEMENT WHERE A DISAGREEMENT EXISTS IN THE DRAWINGS AND SPECIFICATIONS. GUARANTEE AND MAINTAIN THE STABILITY OF WORK AND MATERIALS AND KEEP SAME IN PERFECT REPAIR AND CONDITION FOR THE PERIOD OF ONE (1) YEAR AFTER THE FINAL COMPLETION OF THE WORK AS EVIDENCED BY ISSUANCE OF THE FINAL CERTIFICATE BY THE OWNER.

DEFECTS OF ANY KIND DUE TO FAULTY WORK OR MATERIALS APPEARING DURING THE ABOVE MENTIONED PERIOD MUST BE IMMEDIATELY MADE GOOD BY THE CONTRACTOR AT HIS OWN EXPENSE TO THE ENTIRE SATISFACTION OF THE OUNER. INCLUDE DAMAGE TO THE FINISH OR THE BUILDING RESULTING FROM THE ORIGINAL DEFECT

REPLACE ALL RECEPTACLES, SWITCHES, COVERPLATES, ETC. DAMAGED BY ANY CONTRACTOR DURING THE COURSE OF CONSTRUCTION. MATERIALS FURNISHED FOR THE TEMPORARY LIGHT AND POWER SYSTEM REMAIN CONTRACTORS PROPERTY. REMOVE WHEN THERE IS NO LONGER

COORDINATE/SCHEDULE ALL WORK WITH THE OWNER TO MINIMIZE ANY DISRUPTIONS. CONFINE ALL INTERRUPTIONS TO THE SMALLEST POSSIBLE AREA. PROVIDE TEMPORARY CONNECTIONS IF REGUIRED TO PROVIDE

NOPECT ALL AREAS AFFECTED BY THE INTERRUPTIONS AND RETURN ALL AUTOMATICALLY CONTROLLED EQUIPMENT, ELECTRICALLY OPERATED EQUIPMENT TO THE SAME OPERATING CONDITION PRIOR TO THE

DO NOT DISTURB NORMAL USE OF THE FACILITY, EXCEPT WITHIN THE IMMEDIATE CONSTRUCTION AREA. KEEP WALKS, DRIVEWAYS, ENTRANCES, ETC. PREE AND CLEAR OF EQUIPMENT, MATERIAL AND DEBRIS. STORE ALL EQUIPMENT AND MATERIAL IN A PLACE AND MANNER THAT MINIMIZES CONGESTION AND IS APPROVED BY THE OWNER. PROVIDE NEW MATERIAL AND EQUIPMENT, UNLESS NOTED OTHERWISE. PROTECT EQUIPMENT AND MATERIAL FROM DAMAGE, DIRT AND THE WEATHER.

PROVIDE THE HIGHEST QUALITY WORKMANSHIP AND PERFORM ALL WORK ONLY BY SKILLED MECHANICS. INSTALL MATERIAL AND EQUIPMENT IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS, INSTRUCTIONS AND CURRENT NECA STANDARDS.

THE OWNER RESERVES THE RIGHT TO REJECT MATERIAL OR WORKMANSHIP NOT IN ACCORDANCE WITH THE SPECIFICATIONS, BEFORE OR AFTER INSTALLATION.

PERFORM ALL CUITING AND PATCHING NECESSARY TO WORK, UNLESS SPECIFICALLY DELEGATED TO THE GENERAL CONTRACTOR, OBTAIN SPECIAL PERMISSION FROM THE LANDLORD BEFORE CUITING STRUCTURAL MEMBERS OR FINISHED MATERIAL. PERFORM ALL PATCHING IN SUCH A MANNER AS TO LEAVE NO VISIBLE TRACE AND RETURN THE AREA AFFECTED TO THE CONDITION OF UNDISTURBED WORK. PERFORM ALL PATCHING BY WORKERS EXPERIENCED, SKILLED, AND LICENSED FOR THE PARTICULAR TYPE OF WORK INVOLVED.

PATCH ALL HOLES LEFT AS A RESULT OF DEMOLITION OF ELECTRICAL EQUIPMENT AND DEVICES. PREVENT THE SPREAD OF DUST, DEBRIS, AND OTHER MATERIAL INTO

REFINISH ALL ELECTRICAL EQUIPMENT DAMAGED DURING SHIPPING AND/OR INSTALLATION TO ITS ORIGINAL CONDITION. REMOVE ALL RUSTS PRIME, AND PAINT PER MANUFACTURERS RECOMMENDATIONS FOR

AFTER TESTS HAVE BEEN MADE AND ACCEPTED, CLEAN LIGHT FIXTURES, PANELS AND OTHER EQUIPMENT INSTALLED BY THE CONTRACTOR, LEAVING THE ENTIRE WORK AREA IN A CLEAN AND OPERATE EQUIPMENT AND SYSTEMS IN ALL THIER OPERATING MODES,

TO VERIFY PROPER OPERATION, PRIOR TO FINAL INSPECTION AND OWNER INSTRUCTIONS. NOTIFY THE ENGINEER, IN WRITING, THAT ALL SYSTEMS HAVE BEEN TESTED AND ARE FUNCTIONING AND OPERATING

EQUIPMENT OR MATERIALS UNTIL FINAL ACCEPTANCE OF THE ENTIRE PROJECT BY THE OWNER. PROVIDE TEMPORARY ILLIRING AND CONNECTIONS TO MAINTAIN EXISTING SYSTEMS, INCLIDING TELEPHONE AND DATA SYSTEMS, IN SERVICE DURING CONSTRUCTION. WHEN WORK MUST BE PERFORMED ON ENERGIZED EQUIPMENT OR CIRCUITS, USE PERSONNEL EXPERIENCED IN

CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO ELECTRICAL

EXISTING ELECTRICAL SERVICE: MAINTAIN EXISTING SYSTEM IN SERVICE DISABLE SYSTEM ONLY TO MAKE SUITCHOVERS AND CONNECTIONS. NOTIFY AND OBTAIN PERMISSION FROM OUNER/ENGINEER AT LEAST 24 HOURS BEFORE PARTIALLY OR DISABLING SYSTEM, MINIMIZE OUTAGE DURATION. MAKE TEMPORARY CONNECTIONS TO MAINTAIN SERVICE IN EXISTING TELEPHONE, DATA, CCTV & SECURITY SYSTEM MAINTAIN EXISTING

DEMOLISH AND EXTEND EXISTING ELECTRICAL WORK UNDER AND THIS SECTION, AND AS INDICATED ON THE DRAWINGS. REMOVE, RELOCATE, AND EXTEND EXISTING INSTALLATIONS TO ACCOMODATE NEW

PROVIDE SUPPORTS FOR ALL EXISTING ELECTRICAL EQUIPMENT THAT WAS SUPPORTED PREVIOUSLY BY DEMOLISHED WALLS, FLOORS, CEILING OR OTHER STRUCTURES. PROVIDE NEW SUPPORTS FROM STRUCTURAL MEMBERS NOT SLATED FOR DEMOLITION, PRIOR TO ANY DEMOLITION. OWNER RESERVES THE RIGHT OF FIRST REFUSAL TO OBTAIN MATERIAL SHOWN TO BE REMOVED UNDER THIS CONTRACT. ITEMS NOT RETAINED BY THE OWNER BECOME THE PROPERTY OF THE CONTRACTOR AND

EXTEND EXISTING INSTALLATIONS USING MATERIALS AND METHODS COMPATIBLE WITH EXISTING ELECTRICAL INSTALLATIONS, OR AS SOPECIFIED. RELOCATE AND REPOUTE CONDUIT AND WIRING AS REQUIRED FOR CONDUIT CONCEALED IN WALLS OR STRUCTURE BEING ALTERED AS

REROUTE EXISTING RACEULAY AND WIRING, WHICH IS EXPOSED DUE TO REMOVAL OF EXISTING CONSTRUCTION. CONCEAL NEW RACEULAY AND WIRING AND MAINTAIN OPERATION.

SECTION 16050 - BASIC MATERIALS AND METHODS ENCASE ALL CONDUCTORS IN A CONTINUOUS RACEWAY SYSTEM.
PROVIDE PULL AND JUNCTION BOXES AS REQUIRED BY THE NEC. SIZE
ALL RACEWAY PER THE NEC WITH OVERSIZED CONDUITS AS INDICATED.

PROVIDE JUNCTION BOXES OR GUTTER AT BRANCH PANEL AND

PROVIDE EXPANSION FITTINGS WHERE RACEWAY CROSSES BUILDING EXPANSION JOINTS.

RUN ALL EXPOSED CONDUIT IN A NEAT, WORKMANLIKE MANNER PARALLEL TO THE BUILDING LINES, TIGHT TO THE WALL AND CEILING SURFACES, AND FIRSTLY SUPPORT WITH CONDUIT CLAMPS OR HANGERS. PROVIDE TWO (2) HOLE MOUNTING STRAPS, MINIMUM THREE (3) FEET ON CENTER, FOR ALL SURFACE CONDUIT MOUNTED ON WALLS LESS THAN SIX (6) FEET ABOVE FINISHED FLOOR, PLACE CONDUITS AT LEAST 8" AWAY FROM ALL HOT PIPING AND SURFACES INCLUDING DOMESTIC HOT WATER LINES.

PROVIDE GALVANIZED CODE GUAGE STEEL JUNCTION AND PULL BOXES WITH SCREW ON COVERS OF TYPE, SHAPE AND SIZE REQUIRED TO SUIT EACH INSTALLATION. PROVIDE GASKETING IN DAMP AND DUSTY LOCATIONS. PROVIDE CAST BOXES IN WEATHERPROOF, VAPOR TIGHT

PROVIDE 4" BOXES THROUGHOUT, PROVIDE 3-1/2" DEEP BOXES WHERE INSTALLED IN MASONRY, 2-1/2" MINIMUM ELSEWHERE. VAPOR TIGHT GANG MUD OR TILE RING FOR SINGLE DEVICES. COORDINATE THE LOCATION OF ALL OUTLETS WITH MECHANICAL

PROVIDE WIRE AND CABLE WITH INSULATION VOLTAGE RATING EQUAL TO OR GREATER THAN THE APPLIED SYSTEM VOLTAGE. PROVIDE SOLID OR STRANDED COPPER CONDUCTORS WITH TYPE THUN, THIN, OR XHIN NSULATION FOR NO. 12 AUG AND NO. 10 AUG CONDUCTORS. PROVIDE MINIMUM NO. 12 AUG CONDUCTOR SIZE, UNLESS NOTED OTHERWISE. USE THE MINIMUM CONDUCTOR SIZE WHEN NO SIZE IS INDICATED. ALL

SECTION 16501 - BUILDING LIGHTING PROVIDE LIGHTING FIXTURES AS SCHEDULED CAN HOUSING LAMPS, LAMP HOLDERS, REFLECTORS, BALLASTS & WIRING LUORESCENT LAMP BALLAST FOR TO & T5 LAMPS SHALL BE ELECTRONIC CBM CERTIFIED W THO LESS THAN 20%

SUPPORT ALL RECESSED LIGHTING FIXTURES W/4 \$ 12GA. WIRES INDEPENDENT FROM CEILING SUPPORT SYSTEM.

|          |                  |                 |                       | H               | P    | NE    | LB    | OA           | RD     | S     | CH   | L    | DL       | JL       | _        | _        |          |  |
|----------|------------------|-----------------|-----------------------|-----------------|------|-------|-------|--------------|--------|-------|------|------|----------|----------|----------|----------|----------|--|
| PANEL    | 'A'              | _               |                       |                 |      |       |       | 120/20       | 8vc    | DLTS  |      | _    | 3        |          | _        | PH       |          | 4  |
| MOUNTING | FLUSH<br>SURFACE |                 |                       |                 |      |       |       |              |        |       |      |      |          |          |          |          | MEZZ. 20 |  |
|          | 10,000 \$        | EPVIC           | F PAT                 | ED              |      |       |       | AMP          | 225    | - MLO |      |      | PF       | ROJE     | CT       |          | BRIGHAN  | I M.S.   |
| IMIIIO.  | 10,000           | <u>JLI</u> (VIC | L 10A1                | LU              |      |       |       |              |        |       |      |      |          |          |          | _        |          |  |
|          |                  |                 |                       |                 |      |       | BRAN  | NCH BR       | EAKERS | 3     |      |      |          |          |          |          |          |  |
|          |                  |                 |                       | WIRE            | CIR. | LEFT  | PHASE | LOAD         | RIGHT  | PHASE | LOAD | CIR. |          |          |          | WIR      | Ε        |  |
|          | EM               | _               | POLE                  | SIZE            | _    | Α     | В     | С            | Α      | В     | С    | NO.  | _        | POI      | E        |          |          | EM   |
| LIGH     | TING             | 20              | 1                     | 12              | 1    | 1100  |       |              | 1000   |       |      | 2    | 20       | 1        | Ц        | 12       | RECE     | PTACLES  |
|          |                  | ┷               | $\vdash$              | $\vdash$        | 3    |       | 1000  |              |        | 600   |      | 4    | $\vdash$ | Ш        | _        | _        |          |  |
|          |                  | ⊢⊢              | ┷                     | ₩               | 5    |       |       | 1300         | 000    |       | 600  | 6    | ╙        | Н        | 4        | 4        |          | -  |
| OLITROOR | LIGHTING         | ⊢⊢              | $\vdash$              | ₩               | 7    | 1500  |       |              | 600    | 400   |      | 8    | ⊢        | Н        | 4        | -        |          | -  |
| OUTDOOR  | LIGHTING         | ⊢⊢              | $\vdash$              | ₩               | 9    |       | 1100  | 1100         |        | 400   | 1000 | 10   | ₩        | Н        | 4        | -        |          | -  |
|          |                  | ⊢⊢              | $\vdash$              | ₩               | 11   | 1000  |       | 1100         | 1000   |       | 1000 | 14   | ⊢⊢       | Н        | $\dashv$ | +        | +        | -  |
| _        |                  | ╌               | ⊢⊢                    | ┿               | 15   | 1800  | 1800  |              | 1000   | 600   | -    | 16   | ⊢⊢       | Н        | $\dashv$ | ┰        | +        | +  |
| O.H. [   | )<br>)<br>)      | $\vdash$        | $\vdash$              | ╁               | 17   |       | 1800  | 1000         |        | 000   | 600  | 18   | Η        | $\vdash$ | $\dashv$ | ┰        |          | +  |
| U.n. t   | l                | $\vdash$        | $\vdash$              |                 |      | 1000  |       | 1000         | 400    |       | 000  | 20   | $\vdash$ | $\vdash$ | ┪        | $\dashv$ | +        | <del>                                     </del> |
|          |                  | $\vdash$        | $\vdash$              | $\vdash$        | 21   | 1000  | 1000  |              | 100    | 700   |      | 22   | $\vdash$ | Н        | H        | 7        | BUI      | RNERS  |
|          |                  | $\vdash$        | $\vdash$              | $\vdash$        | 23   |       | 1000  | 1000         |        |       | 1500 | 24   | 25       | 1 1      | П        | 10       |          | JM PUMF  |
|          |                  |                 | $\Box$                |                 | 25   | 1000  |       |              | 1500   |       |      | 26   | 25       | 1        | ╗        | 10       |          | JM PUMP  |
|          |                  | П               | П                     | П               | 27   |       | 1000  |              |        |       |      | 28   | 20       | 1        | П        |          | S        | PARE   |
|          |                  |                 |                       |                 | 29   |       |       | 1000         |        |       |      | 30   |          |          |          |          |          |  |
|          |                  |                 |                       |                 | 31   | 1000  |       |              |        |       |      | 32   |          |          |          |          |          |  |
|          |                  |                 |                       |                 | 33   |       | 1000  |              |        |       |      | 34   |          | Ш        |          |          |          |  |
| SPA      | ARE              | Ш               | $\sqcup \!\!\! \perp$ | $\sqcup \sqcup$ | 35   |       |       |              |        |       |      | 36   | Ш        | Щ        |          |          |          |  |
|          |                  | ╙               | $\vdash$              | $\vdash$        | 37   |       |       |              |        |       |      | 38   | $\vdash$ | Ш        | Ц        |          |          |  |
|          |                  | ┷               | ┷                     | ┷               | 39   |       |       |              |        |       |      | 40   | ┷        | ₩        | 4        |          |          | -  |
|          |                  | $\perp$         | $\Box$                |                 | 41   | 7400  | 2000  | 5400         | 4500   | 0700  | 7700 | 42   |          | Ш        | _        |          |          | 1  |
|          |                  |                 |                       | TOT             | ٩L   | 11900 |       | 5400<br>9100 | 4500   | 2300  | 3/00 | J    |          | L        | JAC      | то       | TAL30    | 0.200  |
|          |                  |                 |                       |                 |      |       |       |              |        |       |      |      |          | _        |          |          | FLA      |  |
|          |                  |                 |                       |                 |      |       |       |              |        |       |      |      |          |          |          |          |          | <del></del>                                      |

| PANEL 'M'        | _      |       |  |           |       |       | 120/20 | 08VO   | LTS    |         | _        | 3   |        | PH   | W                  |
|------------------|--------|-------|--|-----------|-------|-------|--------|--------|--------|---------|----------|-----|--------|------|--------------------|
| OUNTING FLUSH    |        |       |  |           |       |       |        |        |        |         |          | 10  | CATION | l.   | MEZZ. 201          |
| XX SURFACE       |        |       |  |           |       |       |        |        |        |         |          |     |        | _    | BRIGHAM M.S.       |
| RATING: 22,000 S | SERVIC | E RAT | ED   |           |       |       | AMP    | 300    | - MB   |         |          | FR  | OJECI  | •    | DRIGHAM M.S.       |
|                  |        |       |  |           |       |       |        |        |        |         |          |     |        | _    |                    |
|                  |        |       |  |           |       |       |        | EAKERS |        |         |          |     |        |      |                    |
|                  |        |       | WIRE   |           | LEFT  |       |        |        | PHASE  |         | CIR.     |     |        | WIRE |                    |
| ITEM             | _      | _     | SIZE   |           |       | В     | С      | A      | В      | С       |          |     |        | SIZE | ITEM               |
| COMPRESSOR       | 50     | 3     | 6  | 3         | 2900  | 2900  |        | 12100  | 9200   |         | 4        | 125 | 3      | 1/0  | PANEL 'A'          |
| -1/2 HP-VERIFY   | -      | -     | _  | 5         |       | 2900  | 2900   |        | 9200   | 9900    | 6        | _   | _      | _    |                    |
| STORAGE PUMP     | 60     | 2     | 3  | _         | 3000  |       | 2900   | 2400   |        | 9900    | 8        | 40  | 2      | 8    | COND. UNIT         |
| -                | -      | _     | _  | 9         | 3000  | 3000  |        | 2400   | 2400   |         | 10       | -   | _      | -    | COND. UNII         |
| SPARE            | 20     | 1     | <del>                                     </del> | <u>11</u> |       | 3000  | _      |        | 2100   | _       | 12       | 20  | 1      |      | SPARE              |
| FURNACE          | 25     | 1     | 10   |           | 1500  |       |        | 900    |        |         | 14       | 20  | 3      | 12   | EXH. FAN           |
| SPECIAL OUTLET   | 30     | 2     | 10   | 15        |       | 2400  |        | _      | 900    |         | 16       | -   | _      | _    | EF-2 2HP           |
| _                | -      | _     | _  | 17        |       |       | 2400   | 1      |        | 900     | 18       |     |        |      |                    |
| SPECIAL OUTLET   | 30     | 2     | 10   | 19        | 2400  |       |        | 5000   |        |         | 20       | 60  | 2      | 6    | SPECIAL PURP.      |
| -                | -      | _     | _  | 21        |       | 2400  |        |        | 5000   |         | 22       | ı   | ı      | -    | -                  |
| FUEL EQ.         | 30     | 2     | 12   | 23        |       |       | 1500   | 1      |        |         | 24,      |     |        |      | SPACE ONLY         |
| -                | _      | _     | _  |           | 1500  |       |        | 2900   | )      | )       | 26       | 50  | 3      | 6    | <b>HOIST</b>       |
| FUEL EQ.         | 20     | 2     | 12   | 27        |       | 1500  |        |        | 2900   |         | 28       | ı   | _      | _    | 7-1/2HP            |
|                  | -      | _     | _  | 29        |       |       | 1500   |        |        | 2900    | 30       | -   | _      | _    | _                  |
| FUEL EQ.         | 20     | 2     | 12   |           | 1000  |       |        |        |        |         | 32       | 50  | 3      | _    | SPARE              |
|                  | -      | _     | -  | 33        |       | 1000  | 4000   |        |        |         | 34       | _   | _      | _    | _                  |
| ASH RACK PUMP    | 30     | 2     | 10   | 35        |       |       | 1200   | 1000   |        |         | 36<br>38 | 20  | 2      | - 40 | SEWER PUMP         |
| SPARE            | 20     | 1     | -  | 39        | 1200  |       |        | 1000   | 1000   |         | 40       |     |        | 12   | SEWER PUMP         |
| SPARE            | 20     | 1     |  | 41        |       |       |        |        | 1000   | 1000    |          |     | 1      | 12   | HEAT TAPE GFI      |
| SFAIL            | 20     |       |  | 71        | 13500 | 13200 | 9500   | 24700  | 24700  |         | 72       | 20  | _ '    | 14   | //11 // 17 // 5/11 |
|                  |        |       | TOTA   | ΔI        |       | 34600 |        |        | _ 1,00 | . , 550 | J        |     |        |      | AL 96.600          |

## INDEX OF ELECTRICAL DRAWINGS

ELECTRICAL SYMBOLS & NOTES EOO E100 ELECTRICAL SITE PLAN E2Ø1 LIGHTING PLAN

POWER PLAN

E3Ø1

|                 | LIGHTING FIXTURE SCHEDULE |                        |  |               |     |              |       |     |  |
|-----------------|---------------------------|------------------------|--|---------------|-----|--------------|-------|-----|--|
| FIXTURE<br>TYPE | MANUFACTURE               | CATALOG NUMBER         | DESCRIPTION  | LAMPS         | arr | FIX<br>WATTS | MīG   | VOL |  |
| A               | METALUX                   | 8TDIM232-12@V          | 8' 4-LAMP INDUSTRIAL<br>FLUORESCENT FIXTURE        | F32T8<br>SP35 | 4   | 110          | PEND. | 120 |  |
| В               | METALUX                   | 2FC8-332A-12ØV<br>EBØI | RECESSED FLANGED 2'X4' 3-LAMP FLUORESCENT FIXTURE  | F32T8<br>9P35 | 3   | 98           | REC.  | 126 |  |
| С               | METALUX                   | ₩8232A-12ØV<br>EB8I    | SURFACE MOUNTED FLUORESCENT<br>WRAP AROUND FIXTURE | F32T8<br>6P35 | 2   | 68           | SURF. | 126 |  |
| EL              | SURELITES                 | CC7NC8D-8M             | EMERGENCY BATTERY PACK                             | C/W<br>UNIT   | 2   | 32           | SURF. | 126 |  |
| ×I              | SURELITES                 | LPX70DG-WH             | LED EXIT SIGN                                      | LED           | -   | 32           | UNIY. | 126 |  |
| OA              | LUMARK                    | MHWL250-120V           | OUTDOOR 250W METAL<br>HALIDE WALLPACK              | 25@W<br>MH    | 1   | 275          | SURF. | 126 |  |
| OB              | McGRAW<br>EDISON          | AMF-Y-400MH-MT-76-BK   | OUTDOOR 400W METAL<br>HALIDE FLOOD LIGHT           | 400W<br>MH    | 1   | 460          | SURF. | 126 |  |
|                 |                           |                        |  |               |     |              |       |     |  |

# GENERAL NOTES

- DO NOT SCALE DRAWINGS VERIFY DIMENSIONS IN FIELD PRIOR TO MAKING
- WRITTEN INSTRUCTIONS AND APPROVED WIRING DIAGRAMS AND DETAILS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO PROVIDE ALL MATERIALS AND EQUIPMENT
- COMPATIBLE WITH EQUIPMENT ACTUALLY SUPPLIED CONSULT ARCHITECTS REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF LIGHTING FIXTURES, SPEAKERS, SMOKE DETECTORS ETC.
- ELECTRICAL CONTRACTOR SHALL MEET WITH THE CEILING AND MECHANICAL CONTRACTORS TO COORDINATE LOCATIONS, CLEARANCES, CEILING TYPES AND ROUGH-IN REQUIREMENTS OF ALL LIGHTING FIXTURES PRIOR TO DUCT, PIPING

AND CEILING INSTALLATIONS.

- ALL EMPTY RACEWAY SYSTEMS SHALL HAVE A 200LB RATED PULL CORD INSTALLED AND SHALL BE IDENTIFIED AT EACH JUNCTION, PULL AND TERMINATION POINT, USING PERMANANT MARKER IN THE BOX. ID SHALL INDICATE INTENDED USE OF CONDUIT, ORIGINATION AND TERMINATION POINTS OF EACH INDIVIDUAL CONDUIT
- ALL PENETRATIONS OF FIRE RATED FLOORS, CEILING AND WALLS SHALL BE SEALED WITH APPROVED AND RATED FIRE STOP MATERIAL TO MAINTAIN FIRE RATING OF
- ELECTRICAL BOXES SHALL NOT BE LOCATED IN MASONRY OR CONCRETE COLUMNS, BOND BEAMS OR GROUTED CELLS OF MASONRY WALLS ADJACENT TO OPENINGS
- IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS TO ESTABLISH A

WITHOUT COORDINATION WITH THE MASONRY CONTRACTOR.

- A STANDARD OF GUALITY. THE ENGINEER RESERVES THE RIGHT TO VERBALLY APPROVE METHODS AND MATERIALS NOT REFLECTED HEREIN.
- CONTRACTOR SHALL REVIEW ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING AND OTHER DRAWINGS PRIOR TO BID. 10. WORK SHALL BE PERFORMED IN A PROFESSIONAL WORKMANLIKE MANNER TO THE
- SATISFACTION OF THE ARCHITECT AND ENGINEER.
- WORK, MATERIALS AND EQUIPMENT SHALL CONFORM TO THE LATEST EDITIONS OF LOCAL, STATE AND NATIONAL CODES, STANDARDS AND ORDINANCES.
- CONTRACTOR SHALL SECURE AND PAY FOR ALL NECESSARY BUILDING PERMITS AND INSPECTION FEES.
- THE CONTRACTOR SHALL GUARANTEE THE INSTALLATION AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP, WHICH MAY OCCUR UNDER NORMAL USAGE FOR
- A PERIOD OF ONE YEAR AFTER SUBSTANTIAL COMPLETION. DEFECTS SHALL BE PROVIDE RECORD DRAWINGS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
- 15. VERIFY EXACT LOCATION OF EQUIPMENT TO BE FURNISHED BY OTHERS PRIOR . ELECTRICAL CONTRACTOR SHALL VERIFY ALL EQUIPMENT DIMENSIONS AND LOCATIONS BEFORE BEGINNING ROUGH-INS. CONSULT CONTRACT DOCUMENT DRAWINGS AND SHOP DRAWINGS TO VERIFY ALL CODE AND MAINTENANCE
- REQUIRED CLEARANCES ARE MAINTAINED. CONTRACTOR SHALL VERIFY ACTUAL ELECTRICAL LOADS OF EACH PIECE OF EQUIPMENT REQUIRING POWER. BRING ANY DESCREPANCIES TO THE ATTENTION
- OF THE PROJECT ENGINEER. SYSTEMS SHALL BE TESTED FOR PROPER OPERATION. IF TESTS RESULT IN DEFECT OR IMPROPER OPERATION THE CONTRACTOR SHALL MAKE AN

AND DUCTS ENTERING BOXES WITH "DUCTSEAL" OR EQUAL.

- CORRECTIONS NECESSARY AT NO ADDITIONAL COSTS TO THE OWNER. WIRE SHALL BE COPPER 75° C RATED FOR GENERAL USE. FOR HID FIXTURES AND WIRING WITHIN 3" OF FLUORESCENT BALLAST SHALL BE COPPER MINIMUM 50" C RATED. CONDUCTOR SIZES INDICATED ARE FOR INSTALLATION IN A MAXIMUM 30" C AMBIENT TEMPERATURE ENVIROMENT. CONDUCTOR AMPACITY
- SHALL BE DERATED FOR HIGHER AMBIENT INSTALLATIONS SPLICES IN EXTERIOR PULLBOXES AND MANHOLES SHALL BE MADE WATERPROOF USING "SCOTCAST" SPLICE KIT OR APPROVED EQUAL. SEAL ENDS OF CONDUITS
- SUBMIT SHOP DRAWINGS IN ACCORDANCE WITH SPECIFICATIONS BOUND IN A THREE RING BINDER, INDEXED IN A NEAT AND ORDERLY MANNER WITH TYPE AND MODEL NUMBERS INDICATED. SUBMITTALS SHALL INCLUDE BUT NOT LIMITED TO: LIGHTING FIXTURES, LAMPS, WIRING DEVICES, OCCUPANCY SENSORS CONTACTORS, TIME CLOCKS, PHOTOCELLS, RELAYS, SWITCHBOARDS, PANELBOARDS, MOTOR CONTROL CENTERS, SAFETY SWITCHES, MOTOR STARTERS, OVERCURRENT PROTECTION DEVICES, TRANSFORMERS, CONDUCTORS OVER 600 VOLTS AND ALL SPECIAL SYSTEMS SUCH AS FIRE ALARM, LIGHTING CONTROLS, SECURITY SYSTEMS,
- VERIFY EXACT LOCATIONS OF ALL NEW AND EXISTING UNDERGROUND SITE UTILITIES, PIPING AND RACEWAY SYSTEMS PRIOR TO TRENCHING. PROVIDE NECESSARY TRENCHING, BACKFILL EXCAYATION, SUPPORTS, SERVICE FEEDERS, (CONDUIT AND/OR WIRE), PULL BOXES, TRANSFORMER PADS, SAW CUTTING AND PATCHING, CONCRETE PAYING ETC, REQUIRED. BACKFILL TRENCHES TO 90% COMPACTION AND PATCHING TO MATCH EXISTING. CONTRACTOR SHALL OBTAIN AND VERIFY EXACT UTILITY COMPANY DRAWINGS AND REQUIREMENTS FOR ALL SITE
  UTILITIES. ELECTRICAL CONTRACTOR SHALL ALSO COORDINATE ELECTRICAL RELATED UTILITIES WITH THE CIVIL AND MECHANICAL ENGINEERS AND CONTRACTORS.

PANEL

(2) 10'x3/4" Ø GROUND RODS

ONE LINE DIAGRAM

PULLBOXES, CABINETS, ETC. MOUNTED ON THE EXTERIOR OF THE BUILDING AT GRADE LEVEL, SHALL BE WEATHERPROOF TYPE WITH HINGED GASKETED LOCKABLE COVERS SECURED WITH TAMPERPROOF SCREWS.

THUN M-38

EXISTING FUEL ISLAND CONDUIT—

\_^^^

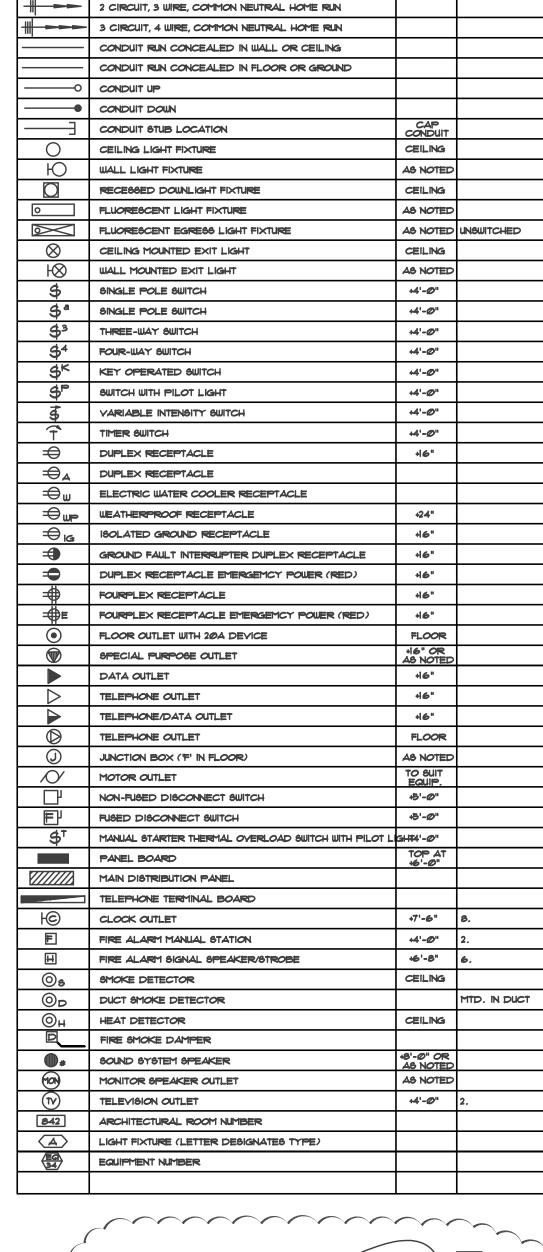
HEAT TAPE

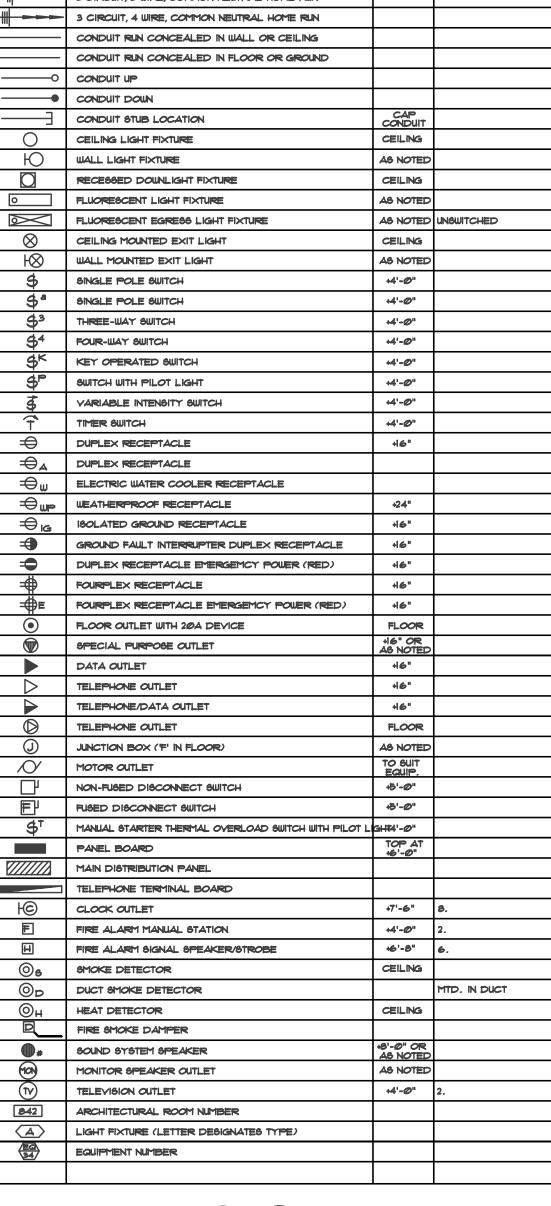
TRAFFIC RATED JUNCTION BOX

-(3) 2"C.

3 #6 & 1 #8-GND. 1-1/2"C.

WATER



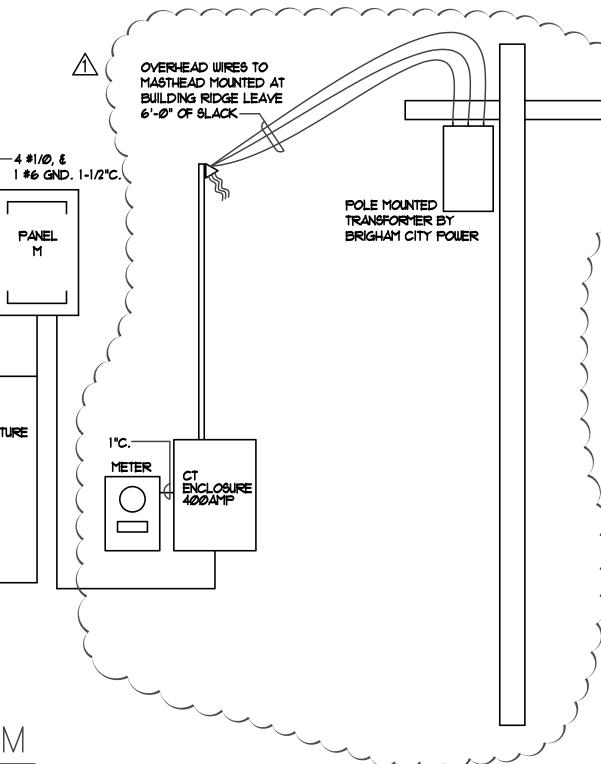


ELECTRICAL SYMBOL SCHEDULE

STANDARD MOUNTING HEIGHT UNLESS OTHERWISE NOTED ON PLANS

ONE CIRCUIT, TWO WIRE HOME RUN TO PANEL

SYMBOL DESCRIPTION



1325E. HIGHWAY 90 BRIGHAM CITY, UTAH 84302 **DESIGNER** architecture · planning · design services 1135 South West Temple, Ste. A Salt Lake City, UT 84101 P:(801) 961-7070 F:(801) 961-7373 CONSULTANTS

90 South 400 West, Suite 340

Salt Lake City UT, 84101

Phone: (801) 359-3158

Fax: (801) 521-4114

BRIGHAM CITY

MAINTENANCE FACILITY

STATION #1423

CLIENT

NOTES

REGISTRATION



NOT VALID UNLESS SIGNED

MARK DATE DESCRIPTION

|3/17/06 | ADDENDEM #1 2/15/06 | CONSTRUCTION DOCUMENTS 

DFCM PROJECT NO: 05059900/067045 ARCHIPLEX PROJECT NO: 050013.01 PVE PROJECT NO: 05153.01 DRAWN BY: K.M. R.K.R. CHECKED BY: OCTOBER 6, 2005

KEY PLAN

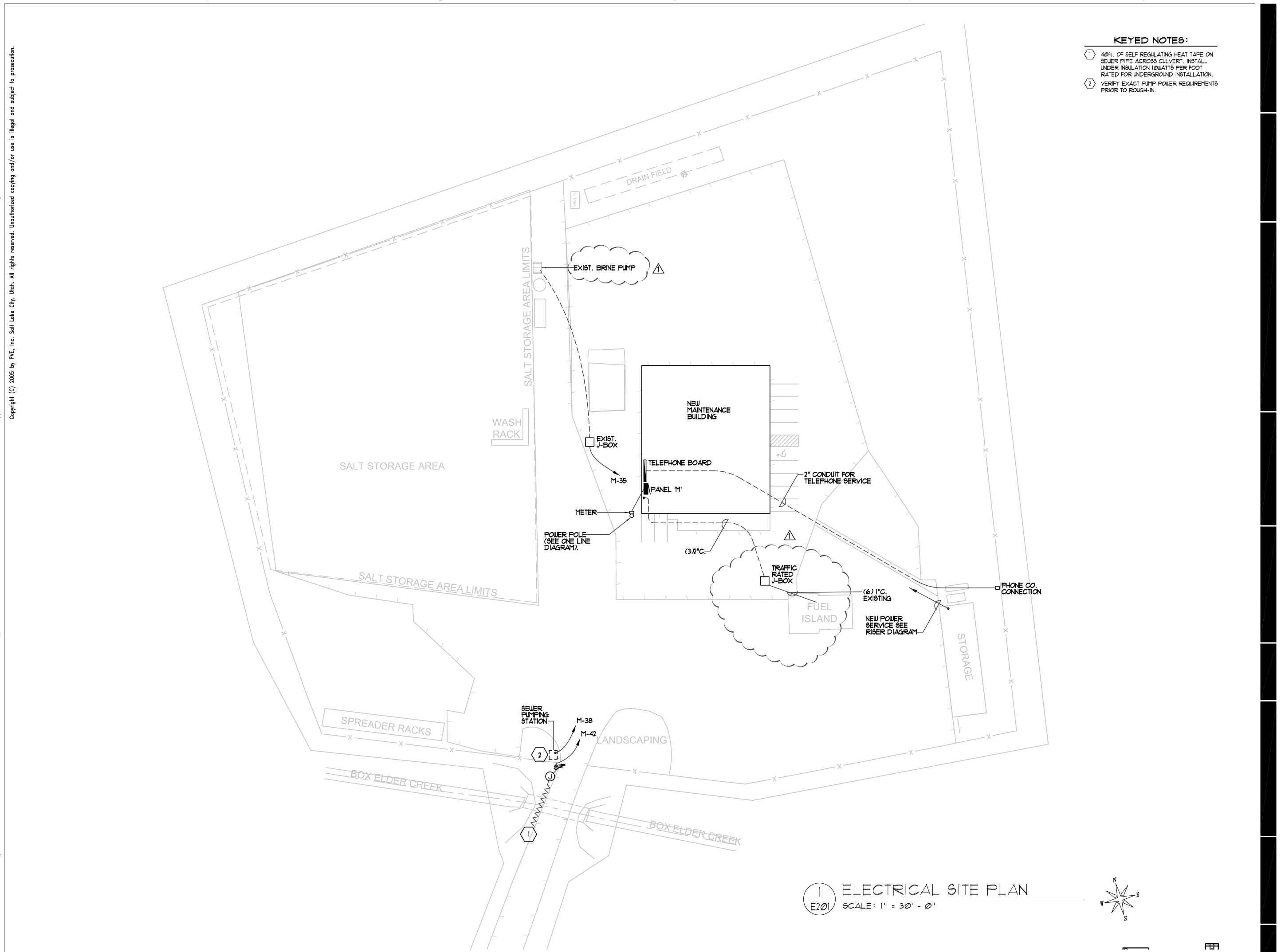
ISSUE

SHEET TITLE

**ELECTRICAL** SCHEDS & NOTES

E001

© 2004 ARCHIPLEX GROUP



BRIGHAM CITY
MAINTENANCE FACILITY

STATION #1423 1325E. HIGHWAY 90 BRIGHAM CITY, UTAH 84302

DESIGNER



architecture • planning • design services

1135 South West Temple, Ste. A
Salt Lake City, UT 84101
P:(801) 961-7070
F:(801) 961-7373

CONSULTANTS



90 South 400 West, Suite 340 Salt Lake City UT, 84101 Phone: (801) 359-3158 Fax: (801) 521-4114

REGISTRATION



NOT VALID UNLESS SIGNE

ISSUE

3/17/06 ADDENDEM #1
2/15/06 CONSTRUCTION DOCUMENTS
1/18/06 FINAL REVIEW

MARK DATE DESCRIPTION

DFCM PROJECT NO: 05059900/067045

ARCHIPLEX PROJECT NO: 050013.01

PVE PROJECT NO: 05153.01

DRAWN BY: K.M.

CHECKED BY: R.K.R.

DATE: 0CTOBER 6, 2005

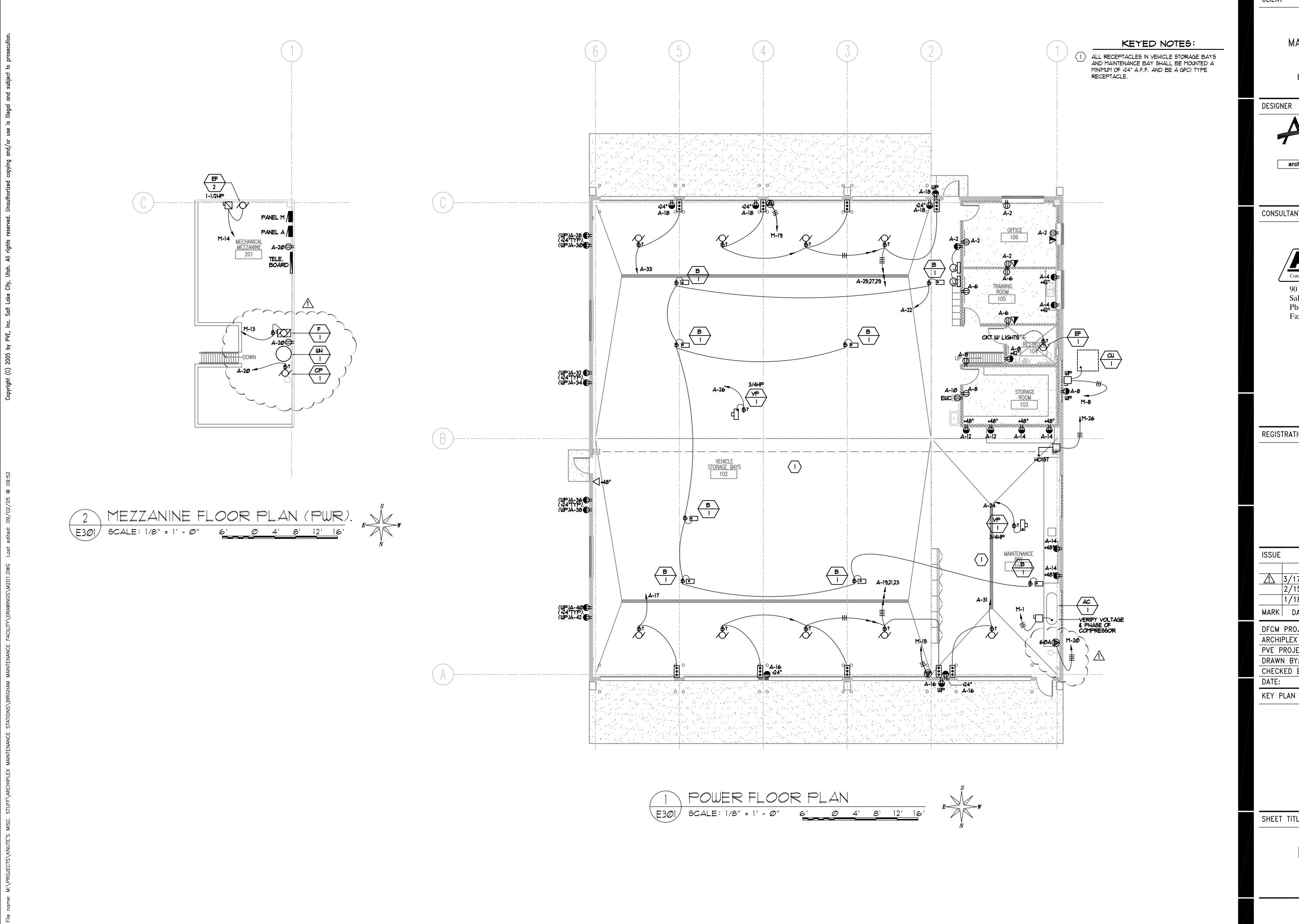
KEY PLAN

SHEET TITLE

ELECTRICAL SITE PLAN

E100

© 2004 ARCHIPLEX GROUP



BRIGHAM CITY MAINTENANCE FACILITY

> STATION #1423 1325E. HIGHWAY 90 BRIGHAM CITY, UTAH 84302



architecture · planning · design services 1135 South West Temple, Ste. A Salt Lake City, UT 84101 P:(801) 961-7070 F:(801) 961-7373

CONSULTANTS



90 South 400 West, Suite 340 Salt Lake City UT, 84101 Phone: (801) 359-3158 Fax: (801) 521-4114

REGISTRATION



|      | 3/17/06 | ADDENDEM #1  |           |
|------|---------|--------------|-----------|
|      | 2/15/06 | CONSTRUCTION | DOCUMENTS |
|      | 1/18/06 | FINAL REVIEW |           |
| MARK | DATE    | DESCRIPTION  |           |

05059900/067045 DFCM PROJECT NO: ARCHIPLEX PROJECT NO: 050013.01 PVE PROJECT NO: 05153.01 DRAWN BY: K.M. CHECKED BY: R.K.R. OCTOBER 6, 2005

SHEET TITLE

**POWER** FLOOR PLAN

E301

© 2004 ARCHIPLEX GROUP